Astronomisches Jahrbuch

für

1916.

Der Sammlung Berliner astronomischer Jahrbücher
einhundert ein und vierzigster Band.

11

Berliner
Astronomisches Jahrbuch

für

1 9 1 6

mit Angaben für die Oppositionen
der Planeten (1)—(754)

für

1914.



Herausgegeben

von dem

Königlichen Astronomischen Recheninstitut

zu

Berlin.

Berlin

Ferd. Dümmlers Verlagsbuchhandlung
(Kommissionsverlag)

1914.

Königliches Astronomisches Recheninstitut,
Berlin-Dahlem, Altenstein Str. 40.

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Vorwort.

Mit dem Jahrgang 1916 des Berliner Astronomischen Jahrbuchs sind die Beschlüsse und Vereinbarungen der Pariser Ephemeridenkonferenz vom Oktober 1911 (Congrès international des Éphémérides astronomiques) erstmalig zur Durchführung gelangt, welche die Herstellung der Jahrbücher durch Arbeitsaustausch und Arbeitsteilung bei gleichzeitiger Steigerung der Gesamtleistungen zu vereinfachen und den Arbeitsaufwand durch Vermeidung überflüssiger Wiederholungen derselben Rechnungen zu vermindern bezwecken. Der Grundgedanke neben dem organisierten Austausch der auf die wesentlichen, allen Jahrbüchern gemeinsamen Gebiete bezüglichen Rechnungen war dabei der, daß die Gesamtheit der Jahrbücher alle für die Zwecke der wissenschaftlichen Forschung irgend erwünschten Angaben enthalten solle, daß es aber nicht erforderlich oder auch nur zweckmäßig sei, in jedem der Jahrbücher alle Spezialgebiete mit gleicher Sorgfalt zu pflegen. Hiervon ausgehend wird das Berliner Astronomische Jahrbuch in Zukunft, wie bisher, alle für die gewöhnlichen Bedürfnisse der Praxis erforderlichen Angaben beibehalten, die ihm überwiesenen besonderen Gebiete — Ephemeride des Mondkraters Moesting A, der 8 älteren Saturnstrabanten, sowie die kleinen Planeten — in aller wünschenswerten Ausführlichkeit behandeln, hingegen in anderen Gebieten von mehr spezialwissenschaftlicher Bedeutung sich mit genäherten Angaben begnügen oder direkt auf die betreffenden anderen Jahrbücher verweisen, in denen die erwünschten Angaben mit aller Ausführlichkeit enthalten sind.

Das Material, das von den auswärtigen Instituten der Redaktion des Berliner Jahrbuchs laut Vereinbarung im Voraus

zur Verfügung gestellt und im Jahrbuch verwendet wurde, bestand in folgendem:

1) Sonne, Mond und große Planeten (außer Merkur), übermittelt seitens des *Nautical Almanac Office, London.*
2) Polsterne, Jupiterstrabanten, Finsternisse, übermittelt seitens des *Bureau des Longitudes, Paris.*
3) Finsternisse, Sternbedeckungen, übermittelt seitens des *Nautical Almanac Office, Washington.*

Im Austausch dafür wurden jenen Instituten die Ephemeriden der 555 Zeitsterne, des Merkur und der 8 älteren Saturnstrabanten im Voraus geliefert, während das Spezialgebiet der kleinen Planeten, ebenso wie die Ephemeride des Mondkraters Moesting A, dem Austausch nicht unterlagen.

Wenn sonach auch der Inhalt des Berliner Jahrbuchs im Wesentlichen der gleiche geblieben ist, machten die Durchführung der Vereinbarungen, die Verwertung des von den anderen Instituten gelieferten Materials mancherlei Änderungen der hergebrachten Form erforderlich, mit denen gleichzeitig einige weitere als zweckmäßig erachtete Änderungen verbunden wurden. So erscheint denn das Berliner Jahrbuch jetzt in gegen das Vorjahr wesentlich veränderter Form, deren Hauptpunkte wir hier kurz zusammenstellen:

Vor allem ist der Übergang auf den Meridian von Greenwich hervorzuheben, durch den erst der bequeme gegenseitige Austausch ermöglicht wurde. Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben bezogen sind, der Meridian von Greenwich*). Die Zeitangaben sind in Mittlerer Zeit Greenwich, die Kulminations-Phänomene für die Kulmination im Meridian von Greenwich gegeben.

Ferner ist allgemein zu bemerken, daß anstelle des benachbarten Jahrzehntanfanges, auf dessen Äquinoktium mancherlei Angaben — rechtwinklige Sonnenkoordinaten, heliozentrische Planetenkoordinaten, ein Teil der Reduktionsgrößen — bezogen waren, von jetzt an das Normaläquinoktium 1925.0 getreten ist.

Bezüglich der einzelnen Himmelskörper ist zu bemerken:

Sonne. Die bisher in den letzten Spalten der rechten Seiten gegebenen kleinen Nutationsglieder $\Delta\psi'$ und $\Delta\varepsilon'$ sind mit den

*) Mit Ausnahme der Angaben über die kleinen Planeten, die, auf 1914 bezüglich, auf dem Meridian von Berlin belassen wurden.

anderen Reduktionsgrößen auf den Seiten 229*—247* untergebracht worden. Statt ihrer wurden die Angaben für den Aufgang und Untergang der Sonne aufgenommen; eine besondere Tabelle (S. 326*) gibt die Korrektion dieser hier für einen Ort im Nullmeridian und +50° Breite gegebenen Zeiten für jeden anderen Ort zwischen 45° und 55° nördlicher Breite.

Mond. Die Kulminations-Ephemeride ist in abgekürzter Form gegeben. Für besondere Zwecke muß auf die Angaben des *Nautical Almanac* verwiesen werden. Die Zeiten des Aufgangs und Untergangs des Mondes für einen Ort im Nullmeridian und +50° Breite sind zugleich mit ihren Änderungen für 1^h westliche Längendifferenz hinzugefügt und durch eine besondere Korrektionstabelle (S. 327*), wie bei der Sonne, für jeden beliebigen Ort zwischen +45° und +55° Breite benutzbar gemacht.

Große Planeten. Nach den vom *Nautical Almanac Office, London*, übermittelten Angaben werden von jetzt an scheinbare geozentrische Örter (statt der früheren wahren Örter) gegeben. In einer besonderen Spalte ist die mittlere Zeit der oberen Kulmination gegeben und eine Tabelle (S. 324*—325*) eingefügt, aus der der halbe Tagbogen eines jeden Gestirns zwischen +30° und —30° Deklination in geographischen Breiten zwischen +45° und +55° zu entnehmen ist.

Fixsterne. Die scheinbaren Sternörter sind für den Moment der oberen Kulmination im Meridian von Greenwich berechnet. Die Genauigkeit ist, den Beschlüssen der Pariser Ephemeridenkonferenz entsprechend, für die 555 Zeitsterne um eine Dezimale vermehrt worden, beträgt also $0^s.001$ in α (mit Ausnahme der Sterne von weniger als 30° Poldistanz), $0''.01$ in δ.

Die scheinbaren Örter der 350 im Verzeichnis der mittleren Sternörter in [ ] eingeschlossenen Auwersschen Fundamentalsterne werden von jetzt an laut Vereinbarung in dem „Almanaque Náutico“ veröffentlicht. Für weitere Sterne werden die scheinbaren Örter in dem „Annuario Astronomico, pubblicato dal R. Osservatorio di Torino“ und in der „Connaissance des Temps“ (Polsterne) gegeben.

Reduktionsgrößen. Da die bisher für die Berechnung der scheinbaren Örter der 555 Sterne benutzten Sterntafeln (nach Art der Tabulae Regiomontanae) die gesteigerte Genauigkeit nicht mehr hergaben und durch neue ersetzt werden mußten,

wurde hiermit zugleich eine neue Bearbeitung der Tafeln der Reduktionsgrößen verbunden. Denn wenn auch durch die Pariser Konferenz von 1896 die Werte der Konstanten der Präzession und Nutation einheitlich festgelegt waren, so bestanden doch in den angewandten Nutations-Ausdrücken noch einige Unterschiede, die jetzt beseitigt werden konnten, indem auch das Berliner Jahrbuch die Newcombschen Ausdrücke (Bull. Astr. Tome **15**, 241) annahm. Über die Berücksichtigung der einzelnen Glieder vergl. die Erläuterungen.

Auch die Anordnung der Tafeln der Reduktionsgrößen hat mehrfache Änderungen erfahren: Die Werte der A, B, C, D sind für 0^h Sternzeit Greenwich, der f, g, G, h, H, i für 12^h Mittlere Zeit Greenwich, die kleinen Mondglieder A', B'; f', g', G' gesondert gegeben. Die tägliche Ephemeride der A, B, C, D gibt deren numerische Werte, weil diese sich im Bedarfsfalle am einfachsten mit A', B' vereinigen lassen.

Finsternisse. Entsprechend den uns gemachten Angaben sind die Elemente von jetzt an in der Besselschen Form gegeben; Näheres s. Erläuterungen.

Sternbedeckungen. Von den seitens des *Nautical Almanac Office, Washington*, übermittelten Angaben ist in der Weise Gebrauch gemacht worden, daß

1) die Elemente der Bedeckungen der helleren Sterne des Auwers'schen Fundamentalkatalogs ($\geqq 4^m.0$) gegeben sind, sofern sie irgendwo auf der Erde sichtbar werden, zugleich mit den ungefähren Sichtbarkeitsgrenzen;

2) die Elemente der Bedeckungen der Sterne aus der American Ephemeris-Liste nur dann gegeben sind, wenn sie irgendwo in Mittel-Europa ($0^h\,20^m$ bis $1^h\,20^m$ östl. von Greenwich, $+45°$ bis $+55°$ Breite) zu beobachten sind.

Satelliten. Die Ephemeriden der 8 älteren Saturnstrabanten sind auf 8 Monate ausgedehnt und auf Mitternacht gesetzt worden. Die Angaben über die 4 älteren Jupiterstrabanten sind angesichts der eingehenden Berücksichtigung in der Connaissance des Temps gekürzt worden. Bezüglich der anderen Trabanten sei auf die American Ephemeris verwiesen.

Hilfstafeln. Die Hilfstafeln haben mannigfache, für zweckmäßig erachtete Umformungen erfahren und sind außer den schon erwähnten durch einige weitere vervollständigt worden, unter denen eine Tafel der genäherten Präzessionsbeträge in

äquatorialen und der genauen in ekliptikalen Koordinaten, sowie eine Hilfstafel zur Berechnung der geozentrischen Breite φ und Entfernung ρ eines jeden Erdortes hervorgehoben seien.

Kleine Planeten. Die genäherten Oppositions-Ephemeriden für alle kleinen Planeten sind erweitert worden und enthalten jetzt 6 Örter im Intervall von je 8 Tagen. Über die weiteren Arbeiten an den kleinen Planeten enthalten die Erläuterungen das Nähere. Der ganze Abschnitt ist als Anhang zum eigentlichen Jahrbuch behandelt und hinter die Erläuterungen zum Jahrbuch gesetzt worden.

Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs. Die Erläuterungen haben infolge der zahlreichen Änderungen eine völlige Umarbeitung erfahren müssen. Gleichzeitig wurden auch die „Grundbegriffe der sphärischen Astronomie", die im Berliner Jahrbuch für 1913 gegeben waren, einer Revision unterzogen und nunmehr in vollständigen Einklang mit den Angaben des Jahrbuchs gebracht. Bei dieser Revision konnten die uns zugegangenen Bemerkungen einiger astronomischen Kollegen mit Erfolg Verwendung finden.

Die Grundlagen des Berliner Astronomischen Jahrbuchs.

Die Grundlage der Ephemeriden des Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill,

enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets,*
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptune.*

Der Halbmesser der Sonne ist nach Auwers gleich 15′ 59″.63 angenommen.

Für den Mond:

Tables de la lune von P. A. Hansen, unter Verbesserung der Tafel 34 für das Fundamentalargument nach Newcomb. Außerdem enthalten die Mondörter die empirischen Korrektionen von Newcomb nach: „Corrections to Hansen's tables of the Moon" (Washington, 1878).

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Recheninstituts).

Für die Reduktionsgrößen:

Als Werte der fundamentalen Reduktionskonstanten sind gemäß den Beschlüssen der Pariser Konferenz vom Mai 1896 (Conférence internationale des étoiles fondamentales. Procès-verbaux. Paris 1896) angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. **25**, 67)
Die Nutations-Konstante . . . . 9″.21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. **15**, 241)
Die Aberrations-Konstante . . . 20″.47
Die Sonnen-Parallaxe . . . . . 8″.80

Als Wert der Abplattung der Erde wird für die Berechnung der Finsternisse und Sternbedeckungen, sowie für Parallaxe nach den Beschlüssen der Pariser Konferenz vom Oktober 1911 der Wert 1 : 297.0 angenommen.

Für die Satelliten:

Die vom Bureau des Longitudes, Paris, übermittelten Angaben über die 4 älteren Jupiterstrabanten beruhen auf den neuen Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910). — Die Angaben über die 8 älteren Saturnssatelliten beruhen auf den von H. Struve ermittelten Werten (Näheres s. Erläuterungen).

Ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Als Vergrößerungsfaktor für den Erdschatten bei Mondfinsternissen ist nach J. Hartmann $\frac{1}{50}$ angenommen.

Fritz Cohn.

Inhalt.

Berichtigungen.

Jahrgang 1915, S. 38 Okt. 9.5 Z lies 0.1065903 statt 0.1085903.

» 1914, S. 424 von Okt. 22 ab } Bei der Phase p_a des Saturn ist
» 1915, S. 272* von Nov. 2 ab } das Vorzeichen zu ändern.

Mittlere und Scheinbare Sternörter.

Nr.	Name	Jahrbuch	Seite	Berichtigung
54	α Eridani	1914	150	δ lies —57° 40′ statt —58° 40′.
223	β Columbae	1908—1916	—	Mittlerer Ort um +0ˢ.010 zu verbessern.
240	—	1916	62*	lies ζ Canis maj. statt ξ Canis maj.
528	ι Bootis	1910—1916	—	Mittlerer Ort um +0ˢ.010 zu verbessern.
680	72 Ophiuchi	1914	165	α lies 18ʰ statt 14ʰ.
80	Octantis 20 G.	1915	84*	α lies 14ʰ statt 12ʰ.

Berichtigungen zu den Angaben über die kleinen Planeten s. S. (103)—(104).

Zeit- und Festrechnung 1916

Das Jahr 1916 entspricht dem
Jahr 6629 der Julianischen Periode und dem
Jahr 7424 — 7425 der Byzantinischen Ära

	Gregorianischer oder Neuer Kalender	Julianischer oder Alter Kalender
Goldene Zahl	17	17
Epakten	XXV	VII
Sonnenzirkel	21	21
Sonntagsbuchstabe	BA	CB

	Gregorianischer oder Neuer Kalender	Tag im Julianischen Kalender	Tag im Gregorian. Kalender
Septuagesima	Febr. 20	Febr. 7	Febr. 20
Aschermittwoch	März 8	Febr. 24	März 8
I. Quatember	März 15	März 2	März 15
Ostersonntag	April 23	April 10	April 23
Himmelfahrt	Juni 1	Mai 19	Juni 1
Pfingstsonntag	Juni 11	Mai 29	Juni 11
II. Quatember	Juni 14	Juni 1	Juni 14
III. Quatember	Sept. 20	Sept. 21	Okt. 4
I. Advent	Dez. 3	Nov. 27	Dez. 10
IV. Quatember	Dez. 20	Dez. 14	Dez. 27

Kalender der Mohammedaner

1334 (Gemeinjahr)			
Rebî-el-awwel 1	1916	Jan.	7
Rebî-el-accher 1	»	Febr.	6
Dschemâdi-el-awwel 1	»	März	6
Dschemâdi-el-accher 1	»	April	5
Redscheb 1	»	Mai	4
Schabân 1	»	Juni	3
Ramadân 1	»	Juli	2
Schewwâl 1	»	Aug.	1
Dsû 'l-kade 1	»	Aug.	30
Dsû 'l-hedsche 1	»	Sept.	29
1335 (Gemeinjahr)			
Moharrem 1	»	Okt.	28
Safar 1	»	Nov.	27
Rebî el awwel 1	»	Dez.	26

Kalender der Juden

5676	Schebat	1	. . . .	1916	Jan.	6
	Adar	1	. . . .	»	Febr.	5
		14	Klein Purim	»		18
	Veadar	1	. . . .	»	März	6
		11	Fasten - Esther	»		16
		14	Purim	»		19
		15	Schuschan - Purim	»		20
	Nisan	1	. . . .	»	April	4
		15	Passah - Anfang*	»		18
		16	Zweites Fest*	»		19
		21	Siebentes Fest*	»		24
		22	Achtes Fest*	»		25
	Ijar	1	. . . .	»	Mai	4
		18	Lag - B'omer	»		21
	Sivan	1	. . . .	»	Juni	2
		6	Wochenfest*	»		7
		7	Zweites Fest*	»		8
	Thamuz	1	. . . .	»	Juli	2
		17	Fasten. Tempeleroberung	»		18
	Ab	1	. . . .	»		31
		9	Fasten. Tempelverbrennung	»	Aug.	8
	Elul	1	. . . .	»		30
5677	Ordentliches Gemeinjahr					
	Tischri	1	Neujahrsfest*	1916	Sept.	28
		2	Zweites Fest*	»		29
		4	Fasten - Gedaljah	»	Okt.	1
		10	Versöhnungsfest*	»		7
		15	Laubhüttenfest*	»		12
		16	Zweites Fest*	»		13
		21	Palmenfest	»		18
		22	Versammlung oder Laubhüttenende* .	»		19
		23	Gesetzesfreude*	»		20
	Marcheschwan	1	. . . .	»		28
	Kislev	1	. . . .	»	Nov.	26
		25	Tempelweihe	»	Dez.	20
	Tebet	1	. . . .	»		26

Die mit * bezeichneten Festtage werden streng gefeiert.

Astronomische Zeichen und Abkürzungen.

Bezeichnung der Wochentage.

☉ Sonntag.
☾ Montag.
♂ Dienstag.
☿ Mittwoch.
♃ Donnerstag.
♀ Freitag.
♄ Sonnabend.

Adspekten.

☌ Konjunktion.
□ Quadratur.
☍ Opposition.

Mondphasen.

● Neumond.
◐ Erstes Viertel.
○ Vollmond.
◑ Letztes Viertel.

☊ Aufsteigender } Knoten.
☋ Niedersteigender } Knoten.

Zeichen
des Tierkreises und der Himmelskörper.

♈ Widder	. . .	0 Grad.	
♉ Stier	. . . .	30 »	☉ Sonne.
♊ Zwillinge	. .	60 »	☾ Mond.
♋ Krebs	. . . .	90 »	☿ Merkur.
♌ Löwe	. . . .	120 »	♀ Venus.
♍ Jungfrau	. .	150 »	♁ Erde.
♎ Wage	. . . .	180 »	♂ Mars.
♏ Skorpion	. .	210 »	♃ Jupiter.
♐ Schütze	. . .	240 »	♄ Saturn.
♑ Steinbock	. .	270 »	♅ Uranus.
♒ Wassermann		300 »	♆ Neptun.
♓ Fische	. . .	330 »	

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit	Bezeichnung	Staaten
$11^h 30^m$ O.	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina
5 30	—	Ostindien
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Bulgarien, Rumänien, Türkei, Ägypten, Süd-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Luxemburg, Norwegen, Österreich-Ungarn, Schweden, Schweiz, Serbien, Deutsch Südwest-Afrika
0 0	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien, Portugal, Spanien, Gibraltar, Algerien
3 0 W.	—	Ost-Brasilien
4 0	Atlantic St. Time	Mittel-Brasilien, Canada (Küste)
5 0	Eastern St. Time	Canada (Quebec, Ontario bis 82° 30′ westl.), Vereinigte Staaten (Ost-Zone), Chile, Panama, Peru, West-Brasilien
6 0	Central St. Time	Zentral-Zone von Canada und Vereinigte Staaten
7 0	Mountain St. Time	Gebirgszone von Canada und Vereinigte Staten
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Kolumbien
10 30	—	Sandwich Inseln

b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich	Staaten	Meridian	Längendifferenz gegen Greenwich
Argentinien	Cordoba	$4^h 16^m 48.^s2$ W.	Mexico	Mexico	$6^h 36^m 26.^s7$ W.
Columbien	Bogota	4 56 54.2 W.	Niederlande	Amsterdam	0 19 32.1 O.
Ecuador	Quito	5 14 6.7 W.	Rußland	Pulkowa	2 1 18.6 O.
Griechenland	Athen	1 34 52.9 O.	Uruguay	Montevideo	3 44 48.9 W.
Irland	Dublin	0 25 21.1 W.	Venezuela	Caracas	4 27 43.6 W.

Sonne, Mond, Große Planeten

1916

0ʰ mittlere Zeit Greenwich

Monats- und Wochentag			Zeitgleichung Mittlere Zeit — Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchg.-Dauer St.-Zt.	Halbmesser
			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	1	Sa	+ 3 10.94	28.61	18 42 27.13	4 25.17	—23 5 35.0	4 43.0	71.06	16 17.52
	2	St	3 39.55	28.30	18 46 52.30	4 24.86	23 0 52.0	5 10.5	71.02	16 17.52
	3	Mo	4 7.85	27.95	18 51 17.16	4 24.51	22 55 41.5	5 38.0	70.97	16 17.52
	4	Di	4 35.80	27.58	18 55 41.67	4 24.14	22 50 3.5	6 5.3	70.92	16 17.51
	5	Mi	5 3.38	27.17	19 0 5.81	4 23.72	22 43 58.2	6 32.4	70.87	16 17.50
	6	Do	+ 5 30.55	26.71	19 4 29.53	4 23.27	—22 37 25.8	6 59.2	70.81	16 17.49
	7	Fr	5 57.26	26.24	19 8 52.80	4 22.80	22 30 26.6	7 25.9	70.75	16 17.48
	8	Sa	6 23.50	25.72	19 13 15.60	4 22.28	22 23 0.7	7 52.3	70.69	16 17.46
	9	St	6 49.22	25.18	19 17 37.88	4 21.74	22 15 8.4	8 18.4	70.62	16 17.43
	10	Mo	7 14.40	24.62	19 21 59.62	4 21.18	22 6 50.0	8 44.4	70.55	16 17.40
	11	Di	+ 7 39.02	24.03	19 26 20.80	4 20.58	—21 58 5.6	9 10.0	70.47	16 17.37
	12	Mi	8 3.05	23.41	19 30 41.38	4 19.98	21 48 55.6	9 35.4	70.39	16 17.33
	13	Do	8 26.46	22.79	19 35 1.36	4 19.34	21 39 20.2	10 0.5	70.31	16 17.29
	14	Fr	8 49.25	22.13	19 39 20.70	4 18.68	21 29 19.7	10 25.2	70.23	16 17.24
	15	Sa	9 11.38	21.46	19 43 39.38	4 18.02	21 18 54.5	10 49.8	70.14	16 17.19
	16	St	+ 9 32.84	20.77	19 47 57.40	4 17.33	—21 8 4.7	11 14.0	70.05	16 17.13
	17	Mo	9 53.61	20.07	19 52 14.73	4 16.63	20 56 50.7	11 37.9	69.96	16 17.06
	18	Di	10 13.68	19.35	19 56 31.36	4 15.91	20 45 12.8	12 1.5	69.86	16 16.99
	19	Mi	10 33.03	18.64	20 0 47.27	4 15.19	20 33 11.3	12 24.8	69.76	16 16.91
	20	Do	10 51.67	17.89	20 5 2.46	4 14.46	20 20 46.5	12 47.7	69.66	16 16.83
	21	Fr	+11 9.56	17.15	20 9 16.92	4 13.70	—20 7 58.8	13 10.3	69.56	16 16.74
	22	Sa	11 26.71	16.39	20 13 30.62	4 12.95	19 54 48.5	13 32.7	69.45	16 16.65
	23	St	11 43.10	15.63	20 17 43.57	4 12.19	19 41 15.8	13 54.6	69.35	16 16.55
	24	Mo	11 58.73	14.86	20 21 55.76	4 11.42	19 27 21.2	14 16.2	69.24	16 16.44
	25	Di	12 13.59	14.09	20 26 7.18	4 10.64	19 13 5.0	14 37.5	69.13	16 16.33
	26	Mi	+12 27.68	13.31	20 30 17.82	4 9.86	—18 58 27.5	14 58.3	69.02	16 16.21
	27	Do	12 40.99	12.52	20 34 27.68	4 9.08	18 43 29.2	15 18.9	68.91	16 16.09
	28	Fr	12 53.51	11.72	20 38 36.76	4 8.29	18 28 10.3	15 39.0	68.80	16 15.96
	29	Sa	13 5.23	10.94	20 42 45.05	4 7.49	18 12 31.3	15 58.9	68.68	16 15.83
	30	St	13 16.17	10.13	20 46 52.54	4 6.68	17 56 32.4	16 18.1	68.57	16 15.69
	31	Mo	+13 26.30	9.33	20 50 59.22	4 5.89	—17 40 14.3	16 37.1	68.45	16 15.55
Febr.	1	Di	13 35.63	8.52	20 55 5.11	4 5.08	17 23 37.2	16 55.6	68.34	16 15.41
	2	Mi	13 44.15	7.70	20 59 10.19	4 4.26	17 6 41.6	17 13.7	68.22	16 15.26
	3	Do	13 51.85	6.89	21 3 14.45	4 3.44	16 49 27.9	17 31.3	68.11	16 15.11
	4	Fr	13 58.74	6.06	21 7 17.89	4 2.62	16 31 56.6	17 48.6	67.99	16 14.96
	5	Sa	+14 4.80	5.24	21 11 20.51	4 1.79	—16 14 8.0	18 5.3	67.88	16 14.81
	6	St	14 10.04	4.41	21 15 22.30	4 0.97	15 56 2.7	18 21.7	67.76	16 14.65
	7	Mo	14 14.45	3.60	21 19 23.27	4 0.15	15 37 41.0	18 37.6	67.65	16 14.49
	8	Di	14 18.05	2.77	21 23 23.42	3 59.33	15 19 3.4	18 53.1	67.53	16 14.33
	9	Mi	14 20.82		21 27 22.75		15 0 10.3		67.42	16 14.16

Tag		Sternzeit	Länge		Breite	log R		Untergang	Aufgang
		0^h mittlere Zeit Greenwich	Mittleres Äquinoktium 1916.0					in +50° Breite	0^h Länge
		h m s	° ′ ″	′ ″	″			h m	h m
Jan.	1	18 39 16.19	279 45 21.55	61 10.54	−0.57	9.9926812	10 —	4 8	19 59
	2	18 43 12.75	280 46 32.09	61 10.77	−0.52	9.9926802	8	4 9	19 59
	3	18 47 9.31	281 47 42.86	61 10.91	−0.44	9.9926810	23	4 10	19 59
	4	18 51 5.87	282 48 53.77	61 10.93	−0.33	9.9926833	40	4 11	19 58
	5	18 55 2.42	283 50 4.70	61 10.83	−0.20	9.9926873	55	4 12	19 58
	6	18 58 58.98	284 51 15.53	61 10.59	−0.06	9.9926928	71	4 13	19 58
	7	19 2 55.54	285 52 26.12	61 10.26	+0.09	9.9926999	88	4 14	19 58
	8	19 6 52.10	286 53 36.38	61 9.85	+0.22	9.9927087	106	4 15	19 57
	9	19 10 48.66	287 54 46.23	61 9.34	+0.34	9.9927193	125	4 17	19 57
	10	19 14 45.22	288 55 55.57	61 8.78	+0.44	9.9927318	145	4 18	19 56
	11	19 18 41.78	289 57 4.35	61 8.18	+0.52	9.9927463	167	4 19	19 56
	12	19 22 38.33	290 58 12.53	61 7.57	+0.58	9.9927630	190	4 21	19 55
	13	19 26 34.89	291 59 20.10	61 6.92	+0.61	9.9927820	213	4 22	19 55
	14	19 30 31.45	293 0 27.02	61 6.25	+0.62	9.9928033	238	4 23	19 54
	15	19 34 28.01	294 1 33.27	61 5.57	+0.59	9.9928271	263	4 25	19 53
	16	19 38 24.57	295 2 38.84	61 4.91	+0.53	9.9928534	290	4 26	19 52
	17	19 42 21.12	296 3 43.75	61 4.25	+0.45	9.9928824	316	4 28	19 52
	18	19 46 17.68	297 4 48.00	61 3.59	+0.35	9.9929140	342	4 29	19 51
	19	19 50 14.24	298 5 51.59	61 2.94	+0.23	9.9929482	370	4 31	19 50
	20	19 54 10.80	299 6 54.53	61 2.30	+0.10	9.9929852	397	4 32	19 49
	21	19 58 7.35	300 7 56.83	61 1.66	−0.03	9.9930249	423	4 34	19 48
	22	20 2 3.91	301 8 58.49	61 1.06	−0.16	9.9930672	450	4 36	19 47
	23	20 6 0.47	302 9 59.55	61 0.47	−0.28	9.9931122	476	4 37	19 46
	24	20 9 57.03	303 11 0.02	60 59.89	−0.39	9.9931598	501	4 39	19 45
	25	20 13 53.58	304 11 59.91	60 59.32	−0.48	9.9932099	524	4 40	19 43
	26	20 17 50.14	305 12 59.23	60 58.76	−0.54	9.9932623	547	4 42	19 42
	27	20 21 46.70	306 13 57.99	60 58.18	−0.55	9.9933170	568	4 44	19 41
	28	20 25 43.25	307 14 56.17	60 57.57	−0.54	9.9933738	588	4 45	19 40
	29	20 29 39.81	308 15 53.74	60 56.92	−0.50	9.9934326	606	4 47	19 38
	30	20 33 36.37	309 16 50.66	60 56.20	−0.43	9.9934932	622	4 49	19 37
	31	20 37 32.92	310 17 46.86	60 55.40	−0.34	9.9935554	637	4 50	19 36
Febr.	1	20 41 29.48	311 18 42.26	60 54.51	−0.22	9.9936191	650	4 52	19 34
	2	20 45 26.04	312 19 36.77	60 53.49	−0.08	9.9936841	663	4 54	19 33
	3	20 49 22.59	313 20 30.26	60 52.38	+0.07	9.9937504	675	4 56	19 31
	4	20 53 19.15	314 21 22.64	60 51.18	+0.21	9.9938179	687	4 57	19 30
	5	20 57 15.71	315 22 13.82	60 49.88	+0.34	9.9938866	700	4 59	19 28
	6	21 1 12.26	316 23 3.70	60 48.46	+0.45	9.9939566	713	5 1	19 27
	7	21 5 8.82	317 23 52.16	60 46.97	+0.54	9.9940279	727	5 2	19 25
	8	21 9 5.37	318 24 39.13	60 45.45	+0.60	9.9941006	742	5 4	19 24
	9	21 13 1.93	319 25 24.58		+0.64	9.9941748		5 6	19 22

0ʰ mittlere Zeit Greenwich

Monats- und Wochentag			Zeitgleichung Mittlere Zeit — Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchg.-Dauer St.-Zt.	Halbmesser
			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr.	8	Di	+14 18.05	2.77	21 23 23.42	3 59.33	—15 19 3.4	18 53.1	67.53	16 14.33
	9	Mi	14 20.82	1.97	21 27 22.75	3 58.53	15 0 10.3	19 8.0	67.42	16 14.16
	10	Do	14 22.79	1.17	21 31 21.28	3 57.72	14 41 2.3	19 22.7	67.31	16 13.99
	11	Fr	14 23.96	0.37	21 35 19.00	3 56.92	14 21 39.6	19 37.0	67.20	16 13.82
	12	Sa	14 24.33	0.42	21 39 15.92	3 56.14	14 2 2.6	19 50.7	67.09	16 13.64
	13	St	+14 23.91	1.19	21 43 12.06	3 55.37	—13 42 11.9	20 4.2	66.98	16 13.46
	14	Mo	14 22.72	1.95	21 47 7.43	3 54.61	13 22 7.7	20 17.1	66.87	16 13.27
	15	Di	14 20.77	2.70	21 51 2.04	3 53.85	13 1 50.6	20 29.7	66.77	16 13.08
	16	Mi	14 18.07	3.43	21 54 55.89	3 53.12	12 41 20.9	20 41.9	66.66	16 12.89
	17	Do	14 14.64	4.15	21 58 49.01	3 52.40	12 20 39 0	20 53.7	66.56	16 12.69
	18	Fr	+14 10.49	4.86	22 2 41.41	3 51.70	—11 59 45.3	21 5.1	66.46	16 12.48
	19	Sa	14 5.63	5.54	22 6 33.11	3 51.01	11 38 40.2	21 16.0	66.36	16 12.27
	20	St	14 0.09	6.21	22 10 24.12	3 50.35	11 17 24.2	21 26.8	66.26	16 12.06
	21	Mo	13 53.88	6.86	22 14 14.47	3 49.69	10 55 57.4	21 36.9	66.16	16 11.84
	22	Di	13 47.02	7.50	22 18 4.16	3 49.06	10 34 20.5	21 46.9	66.07	16 11.62
	23	Mi	+13 39.52	8.10	22 21 53.22	3 48.45	—10 12 33.6	21 56.3	65.98	16 11.39
	24	Do	13 31.42	8.71	22 25 41.67	3 47.85	9 50 37.3	22 5.3	65.89	16 11.16
	25	Fr	13 22.71	9.28	22 29 29.52	3 47.27	9 28 32.0	22 14.1	65.80	16 10.93
	26	Sa	13 13.43	9.84	22 33 16.79	3 46.71	9 6 17.9	22 22.4	65.71	16 10.69
	27	St	13 3.59	10.39	22 37 3.50	3 46.17	8 43 55.5	22 30.2	65.63	16 10.45
	28	Mo	+12 53.20	10.92	22 40 49.67	3 45.64	— 8 21 25.3	22 37.7	65.55	16 10.21
	29	Di	12 42.28	11.43	22 44 35.31	3 45.12	7 58 47.6	22 44.8	65.47	16 9.97
März	1	Mi	12 30.85	11.92	22 48 20.43	3 44.63	7 36 2.8	22 51.4	65.39	16 9.73
	2	Do	12 18.93	12.42	22 52 5.06	3 44.14	7 13 11.4	22 57.5	65.32	16 9.48
	3	Fr	12 6.51	12.88	22 55 49.20	3 43.67	6 50 13.9	23 3.4	65.25	16 9.23
	4	Sa	+11 53.63	13.33	22 59 32.87	3 43.22	— 6 27 10.5	23 8.7	65.18	16 8.98
	5	St	11 40.30	13.78	23 3 16.09	3 42.78	6 4 1.8	23 13.6	65.12	16 8.74
	6	Mo	11 26.52	14.20	23 6 58.87	3 42.35	5 40 48.2	23 18.1	65.05	16 8.49
	7	Di	11 12.32	14.61	23 10 41.22	3 41.95	5 17 30.1	23 22.2	64.99	16 8.24
	8	Mi	10 57.71	14.99	23 14 23.17	3 41.56	4 54 7.9	23 25.9	64.94	16 7.99
	9	Do	+10 42.72	15.37	23 18 4.73	3 41.18	— 4 30 42.0	23 29.3	64.88	16 7.73
	10	Fr	10 27.35	15.72	23 21 45.91	3 40.83	4 7 12.7	23 32.2	64.83	16 7.48
	11	Sa	10 11.63	16.06	23 25 26.74	3 40.50	3 43 40.5	23 34.7	64.78	16 7.23
	12	St	9 55.57	16.36	23 29 7.24	3 40.19	3 20 5.8	23 36.9	64.74	16 6.97
	13	Mo	9 39.21	16.66	23 32 47.43	3 39.90	2 56 28.9	23 38.8	64.70	16 6.71
	14	Di	+ 9 22.55	16.93	23 36 27.33	3 39.62	— 2 32 50.1	23 40.2	64.66	16 6.45
	15	Mi	9 5.62	17.17	23 40 6.95	3 39.38	2 9 9.9	23 41.3	64.62	16 6.19
	16	Do	8 48.45	17.40	23 43 46.33	3 39.16	1 45 28.6	23 42.0	64.59	16 5.92
	17	Fr	8 31.05	17.60	23 47 25.49	3 38.95	1 21 46.6	23 42.5	64.56	16 5.66
	18	Sa	8 13.45		23 51 4.44		0 58 4.1		64.53	16 5.39

Tag	Sternzeit (0h mittlere Zeit Greenwich)	Mittleres Äquinoktium 1916.0 Länge	Diff.	Breite	log R	Diff.	Untergang in + 50° Breite 0h Länge	Aufgang in + 50° Breite 0h Länge
	h m s	° ′ ″	′ ″	″			h m	h m
Febr. 8	21 9 5.37	318 24 39.13	60 45.45	+0.60	9.9941006	742	5 4	19 24
9	21 13 1.93	319 25 24.58	60 43.89	+0.64	9.9941748	758	5 6	19 22
10	21 16 58.49	320 26 8.47	60 42.30	+0.65	9.9942506	776	5 8	19 20
11	21 20 55.04	321 26 50.77	60 40.67	+0.63	9.9943282	793	5 9	19 18
12	21 24 51.60	322 27 31.44	60 39.01	+0.58	9.9944075	811	5 11	19 17
13	21 28 48.15	323 28 10.45	60 37.36	+0.50	9.9944886	831	5 13	19 15
14	21 32 44.71	324 28 47.81	60 35.71	+0.40	9.9945717	850	5 15	19 13
15	21 36 41.26	325 29 23.52	60 34.08	+0.29	9.9946567	870	5 16	19 11
16	21 40 37.82	326 29 57.60	60 32.46	+0.17	9.9947437	890	5 18	19 10
17	21 44 34.37	327 30 30.06	60 30.85	+0.04	9.9948327	911	5 20	19 8
18	21 48 30.93	328 31 0.91	60 29.27	−0.09	9.9949238	931	5 21	19 6
19	21 52 27.48	329 31 30.18	60 27.72	−0.21	9.9950169	953	5 23	19 4
20	21 56 24.04	330 31 57.90	60 26.21	−0.32	9.9951122	972	5 25	19 2
21	22 0 20.59	331 32 24.11	60 24.74	−0.43	9.9952094	992	5 27	19 0
22	22 4 17.15	332 32 48.85	60 23.30	−0.50	9.9953086	1011	5 28	18 58
23	22 8 13.70	333 33 12.15	60 21.88	−0.54	9.9954097	1027	5 30	18 56
24	22 12 10.26	334 33 34.03	60 20.48	−0.54	9.9955124	1044	5 32	18 54
25	22 16 6.81	335 33 54.51	60 19.07	−0.51	9.9956168	1057	5 33	18 52
26	22 20 3.36	336 34 13.58	60 17.66	−0.44	9.9957225	1070	5 35	18 50
27	22 23 59.92	337 34 31.24	60 16.24	−0.35	9.9958295	1080	5 37	18 48
28	22 27 56.47	338 34 47.48	60 14.77	−0.24	9.9959375	1089	5 38	18 46
29	22 31 53.03	339 35 2.25	60 13.22	−0.11	9.9960464	1097	5 40	18 44
März 1	22 35 49.58	340 35 15.47	60 11.60	+0.03	9.9961561	1102	5 42	18 42
2	22 39 46.13	341 35 27.07	60 9.91	+0.17	9.9962663	1106	5 43	18 40
3	22 43 42.69	342 35 36.98	60 8.14	+0.29	9.9963769	1111	5 45	18 38
4	22 47 39.24	343 35 45.12	60 6.27	+0.41	9.9964880	1114	5 47	18 36
5	22 51 35.80	344 35 51.39	60 4.31	+0.51	9.9965994	1118	5 48	18 34
6	22 55 32.35	345 35 55.70	60 2.27	+0.58	9.9967112	1122	5 50	18 32
7	22 59 28.90	346 35 57.97	60 0.18	+0.62	9.9968234	1126	5 52	18 30
8	23 3 25.46	347 35 58.15	59 58.04	+0.63	9.9969360	1132	5 53	18 28
9	23 7 22.01	348 35 56.19	59 55.88	+0.62	9.9970492	1139	5 55	18 26
10	23 11 18.56	349 35 52.07	59 53.69	+0.58	9.9971631	1144	5 56	18 23
11	23 15 15.12	350 35 45.76	59 51.49	+0.51	9.9972775	1152	5 58	18 21
12	23 19 11.67	351 35 37.25	59 49.27	+0.43	9.9973927	1160	6 0	18 19
13	23 23 8.22	352 35 26.52	59 47.06	+0.32	9.9975087	1169	6 1	18 17
14	23 27 4.78	353 35 13.58	59 44.85	+0.20	9.9976256	1177	6 3	18 15
15	23 31 1.33	354 34 58.43	59 42.65	+0.07	9.9977433	1187	6 4	18 13
16	23 34 57.88	355 34 41.08	59 40.49	−0.06	9.9978620	1198	6 6	18 10
17	23 38 54.44	356 34 21.57	59 38.37	−0.19	9.9979818	1208	6 8	18 8
18	23 42 50.99	357 33 59.94		−0.30	9.9981026		6 9	18 6

0ʰ mittlere Zeit Greenwich

Monats- und Wochentag			Zeitgleichung Mittlere — Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchg.-Dauer St.-Zt. (s)	Halbmesser (′ ″)
März	17	Fr	+8 31.05	17.60	23 47 25.49	3 38.95	−1 21 46.6	23 42.5	64.56	16 5.66
	18	Sa	8 13.45	17.78	23 51 4.44	3 38.78	0 58 4.1	23 42.6	64.53	16 5.39
	19	St	7 55.67	17.93	23 54 43.22	3 38.61	0 34 21.5	23 42.2	64.51	16 5.12
	20	Mo	7 37.74	18.07	23 58 21.83	3 38.49	−0 10 39.3	23 41.7	64.49	16 4.85
	21	Di	7 19.67	18.17	0 2 0.32	3 38.38	+0 13 2.4	23 40.8	64.47	16 4.57
	22	Mi	+7 1.50	18.25	0 5 38.70	3 38.30	+0 36 43.2	23 39.5	64.45	16 4.29
	23	Do	6 43.25	18.31	0 9 17.00	3 38.25	1 0 22.7	23 37.8	64.44	16 4.01
	24	Fr	6 24.94	18.35	0 12 55.25	3 38.20	1 24 0.5	23 36.0	64.43	16 3.73
	25	Sa	6 6.59	18.36	0 16 33.45	3 38.19	1 47 36.5	23 33.6	64.42	16 3.45
	26	St	5 48.23	18.35	0 20 11.64	3 38.20	2 11 10.1	23 31.0	64.42	16 3.17
	27	Mo	+5 29.88	18.33	0 23 49.84	3 38.23	+2 34 41.1	23 28.0	64.42	16 2.88
	28	Di	5 11.55	18.28	0 27 28.07	3 38.28	2 58 9.1	23 24.6	64.42	16 2.60
	29	Mi	4 53.27	18.21	0 31 6.35	3 38.33	3 21 33.7	23 20.9	64.43	16 2.32
	30	Do	4 35.06	18.14	0 34 44.68	3 38.42	3 44 54.6	23 16.7	64.44	16 2.04
	31	Fr	4 16.92	18.04	0 38 23.10	3 38.52	4 8 11.3	23 12.2	64.45	16 1.76
April	1	Sa	+3 58.88	17.92	0 42 1.62	3 38.63	+4 31 23.5	23 7.3	64.46	16 1.48
	2	St	3 40.96	17.80	0 45 40.25	3 38.75	4 54 30.8	23 2.0	64.48	16 1.20
	3	Mo	3 23.16	17.66	0 49 19.00	3 38.90	5 17 32.8	22 56.4	64.50	16 0.92
	4	Di	3 5.50	17.50	0 52 57.90	3 39.05	5 40 29.2	22 50.4	64.52	16 0.64
	5	Mi	2 48.00	17.32	0 56 36.95	3 39.23	6 3 19.6	22 44.0	64.55	16 0.37
	6	Do	+2 30.68	17.14	1 0 16.18	3 39.42	+6 26 3.6	22 37.3	64.58	16 0.10
	7	Fr	2 13.54	16.93	1 3 55.60	3 39.62	6 48 40.9	22 30.3	64.61	15 59.83
	8	Sa	1 56.61	16.71	1 7 35.22	3 39.85	7 11 11.2	22 22.8	64.64	15 59.56
	9	St	1 39.90	16.47	1 11 15.07	3 40.08	7 33 34.0	22 15.1	64.68	15 59.29
	10	Mo	1 23.43	16.21	1 14 55.15	3 40.34	7 55 49.1	22 7.0	64.72	15 59.02
	11	Di	+1 7.22	15.95	1 18 35.49	3 40.61	+8 17 56.1	21 58.5	64.76	15 58.76
	12	Mi	0 51.27	15.65	1 22 16.10	3 40.90	8 39 54.6	21 49.8	64.80	15 58.49
	13	Do	0 35.62	15.36	1 25 57.00	3 41.20	9 1 44.4	21 40.8	64.85	15 58.23
	14	Fr	0 20.26	15.03	1 29 38.20	3 41.52	9 23 25.2	21 31.3	64.90	15 57.96
	15	Sa	+0 5.23	14.69	1 33 19.72	3 41.87	9 44 56.5	21 21.6	64.95	15 57.70
	16	St	−0 9.46	14.33	1 37 1.59	3 42.22	+10 6 18.1	21 11.6	65.00	15 57.43
	17	Mo	0 23.79	13.95	1 40 43.81	3 42.60	10 27 29.7	21 1.3	65.06	15 57.17
	18	Di	0 37.74	13.56	1 44 26.41	3 43.00	10 48 31.0	20 50.7	65.11	15 56.90
	19	Mi	0 51.30	13.14	1 48 9.41	3 43.41	11 9 21.7	20 39.7	65.17	15 56.64
	20	Do	1 4.44	12.71	1 51 52.82	3 43.84	11 30 1.4	20 28.5	65.23	15 56.38
	21	Fr	−1 17.15	12.26	1 55 36.66	3 44.30	+11 50 29.9	20 16.9	65.30	15 56.11
	22	Sa	1 29.41	11.80	1 59 20.96	3 44.76	12 10 46.8	20 5.0	65.36	15 55.85
	23	St	1 41.21	11.32	2 3 5.72	3 45.23	12 30 51.8	19 52.9	65.43	15 55.59
	24	Mo	1 52.53	10.82	2 6 50.95	3 45.73	12 50 44.7	19 40.2	65.49	15 55.33
	25	Di	2 3.35		2 10 36.68		13 10 24.9		65.56	15 55.07

Tag	Sternzeit	Mittleres Äquinoktium 1916.0 Länge		Breite	log R		Untergang in +50° Breite 0ʰ Länge	Aufgang in +50° Breite 0ʰ Länge
	h m s	° ′ ″	′ ″	″			h m	h m
März 17	23 38 54.44	356 34 21.57	59 38.37	−0.19	9.9979818	1208	6 8	18 8
18	23 42 50.99	357 33 59.94	59 36.28	−0.30	9.9981026	1218	6 9	18 6
19	23 46 47.54	358 33 36.22	59 34.24	−0.39	9.9982244	1230	6 11	18 4
20	23 50 44.10	359 33 10.46	59 32.27	−0.46	9.9983474	1240	6 12	18 2
21	23 54 40.65	0 32 42.73	59 30.37	−0.50	9.9984714	1249	6 14	18 0
22	23 58 37.20	1 32 13.10	59 28.52	−0.52	9.9985963	1259	6 16	17 57
23	0 2 33.76	2 31 41.62	59 26.71	−0.50	9.9987222	1266	6 17	17 55
24	0 6 30.31	3 31 8.33	59 24.95	−0.45	9.9988488	1271	6 19	17 53
25	0 10 26.86	4 30 33.28	59 23.21	−0.37	9.9989759	1275	6 20	17 51
26	0 14 23.42	5 29 56.49	59 21.48	−0.26	9.9991034	1278	6 22	17 49
27	0 18 19.97	6 29 17.97	59 19.75	−0.14	9.9992312	1278	6 24	17 46
28	0 22 16.52	7 28 37.72	59 17.99	0.00	9.9993590	1276	6 25	17 44
29	0 26 13.08	8 27 55.71	59 16.19	+0.13	9.9994866	1274	6 27	17 42
30	0 30 9.63	9 27 11.90	59 14.33	+0.26	9.9996140	1270	6 28	17 40
31	0 34 6.18	10 26 26.23	59 12.41	+0.38	9.9997410	1264	6 30	17 38
April 1	0 38 2.74	11 25 38.64	59 10.44	+0.47	9.9998674	1258	6 31	17 36
2	0 41 59.29	12 24 49.08	59 8.41	+0.54	9.9999932	1251	6 33	17 33
3	0 45 55.84	13 23 57.49	59 6.30	+0.58	0.0001183	1243	6 34	17 31
4	0 49 52.40	14 23 3.79	59 4.15	+0.60	0.0002426	1237	6 36	17 29
5	0 53 48.95	15 22 7.94	59 1.97	+0.59	0.0003663	1231	6 38	17 27
6	0 57 45.50	16 21 9.91	58 59.75	+0.56	0.0004894	1225	6 39	17 25
7	1 1 42.06	17 20 9.66	58 57.50	+0.50	0.0006119	1219	6 41	17 23
8	1 5 38.61	18 19 7.16	58 55.23	+0.41	0.0007338	1215	6 42	17 21
9	1 9 35.16	19 18 2.39	58 52.96	+0.29	0.0008553	1210	6 44	17 18
10	1 13 31.72	20 16 55.35	58 50.70	+0.18	0.0009763	1207	6 45	17 16
11	1 17 28.27	21 15 46.05	58 48.43	+0.06	0.0010970	1203	6 47	17 14
12	1 21 24.83	22 14 34.48	58 46.18	−0.06	0.0012173	1201	6 49	17 12
13	1 25 21.38	23 13 20.66	58 43.95	−0.18	0.0013374	1200	6 50	17 10
14	1 29 17.93	24 12 4.61	58 41.76	−0.29	0.0014574	1198	6 52	17 8
15	1 33 14.49	25 10 46.37	58 39.64	−0.38	0.0015772	1199	6 53	17 6
16	1 37 11.04	26 9 26.01	58 37.58	−0.45	0.0016971	1198	6 55	17 4
17	1 41 7.60	27 8 3.59	58 35.59	−0.51	0.0018169	1198	6 56	17 2
18	1 45 4.15	28 6 39.18	58 33.67	−0.53	0.0019367	1199	6 58	17 0
19	1 49 0.71	29 5 12.85	58 31.83	−0.52	0.0020566	1199	6 59	16 58
20	1 52 57.26	30 3 44.68	58 30.08	−0.48	0.0021765	1197	7 1	16 56
21	1 56 53.81	31 2 14.76	58 28.41	−0.40	0.0022962	1195	7 3	16 54
22	2 0 50.37	32 0 43.17	58 26.80	−0.30	0.0024157	1190	7 4	16 52
23	2 4 46.92	32 59 9.97	58 25.22	−0.18	0.0025347	1184	7 6	16 50
24	2 8 43.48	33 57 35.19	58 23.67	−0.06	0.0026531	1177	7 7	16 48
25	2 12 40.03	34 55 58.86		+0.07	0.0027708		7 9	16 46

0ʰ mittlere Zeit Greenwich

Monats- und Wochentag		Zeitgleichung Mittlere Zeit — Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchg.-Dauer St.-Zt.	Halbmesser
		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
April 24	Mo	−1 52.53	10.82	2 6 50.95	3 45.73	+12 50 44.7	19 40.2	65.49	15 55.33
25	Di	2 3.35	10.33	2 10 36.68	3 46.23	13 10 24.9	19 27.4	65.56	15 55.07
26	Mi	2 13.68	9.81	2 14 22.91	3 46.75	13 29 52.3	19 14.2	65.63	15 54.81
27	Do	2 23.49	9.29	2 18 9.66	3 47.26	13 49 6.5	19 0.6	65.71	15 54.56
28	Fr	2 32.78	8.76	2 21 56.92	3 47.80	14 8 7.1	18 46.8	65.78	15 54.31
29	Sa	−2 41.54	8.23	2 25 44.72	3 48.32	+14 26 53.9	18 32.4	65.85	15 54.06
30	St	2 49.77	7.69	2 29 33.04	3 48.86	14 45 26.3	18 17.9	65.93	15 53.81
Mai 1	Mo	2 57.46	7.15	2 33 21.90	3 49.41	15 3 44.2	18 2.9	66.01	15 53.57
2	Di	3 4.61	6.61	2 37 11.31	3 49.95	15 21 47.1	17 47.7	66.09	15 53.33
3	Mi	3 11.22	6.06	2 41 1.26	3 50.49	15 39 34.8	17 32.0	66.17	15 53.10
4	Do	−3 17.28	5.52	2 44 51.75	3 51.04	+15 57 6.8	17 16.2	66.25	15 52.87
5	Fr	3 22.80	4.96	2 48 42.79	3 51.59	16 14 23.0	16 59.9	66.33	15 52.64
6	Sa	3 27.76	4.42	2 52 34.38	3 52.14	16 31 22.9	16 43.4	66.41	15 52.42
7	St	3 32.18	3.85	2 56 26.52	3 52.70	16 48 6.3	16 26.5	66.49	15 52.20
8	Mo	3 36.03	3.30	3 0 19.22	3 53.26	17 4 32.8	16 9.4	66.57	15 51.98
9	Di	−3 39.33	2.75	3 4 12.48	3 53.80	+17 20 42.2	15 52.0	66.65	15 51.77
10	Mi	3 42.08	2.20	3 8 6.28	3 54.37	17 36 34.2	15 34.3	66.74	15 51.56
11	Do	3 44.28	1.63	3 12 0.65	3 54.92	17 52 8.5	15 16.2	66.82	15 51.35
12	Fr	3 45.91	1.08	3 15 55.57	3 55.47	18 7 24.7	14 57.9	66.90	15 51.15
13	Sa	3 46.99	0.53	3 19 51.04	3 56.04	18 22 22.6	14 39.4	66.98	15 50.95
14	St	−3 47.52	0.03	3 23 47.08	3 56.58	+18 37 2.0	14 20.6	67.07	15 50.75
15	Mo	3 47.49	0.59	3 27 43.66	3 57.15	18 51 22.6	14 1.5	67.15	15 50.55
16	Di	3 46.90	1.15	3 31 40.81	3 57.71	19 5 24.1	13 42.1	67.23	15 50.35
17	Mi	3 45.75	1.71	3 35 38.52	3 58.26	19 19 6.2	13 22.6	67.31	15 50.16
18	Do	3 44.04	2.27	3 39 36.78	3 58.82	19 32 28.8	13 2.7	67.39	15 49.97
19	Fr	−3 41.77	2.82	3 43 35.60	3 59.39	+19 45 31.5	12 42.6	67.47	15 49.78
20	Sa	3 38.95	3.39	3 47 34.99	3 59.94	19 58 14.1	12 22.3	67.54	15 49.59
21	St	3 35.56	3.94	3 51 34.93	4 0.50	20 10 36.4	12 1.7	67.62	15 49.40
22	Mo	3 31.62	4.48	3 55 35.43	4 1.04	20 22 38.1	11 40.9	67.69	15 49.22
23	Di	3 27.14	5.03	3 59 36.47	4 1.58	20 34 19.0	11 19.7	67.77	15 49.04
24	Mi	−3 22.11	5.55	4 3 38.05	4 2.11	+20 45 38.7	10 58.4	67.84	15 48.86
25	Do	3 16.56	6.08	4 7 40.16	4 2.64	20 56 37.1	10 36.9	67.91	15 48.69
26	Fr	3 10.48	6.58	4 11 42.80	4 3.13	21 7 14.0	10 15.0	67.98	15 48.52
27	Sa	3 3.90	7.06	4 15 45.93	4 3.63	21 17 29.0	9 52.9	68.05	15 48.36
28	St	2 56.84	7.55	4 19 49.56	4 4.10	21 27 21.9	9 30.6	68.11	15 48.20
29	Mo	−2 49.29	7.99	4 23 53.66	4 4.55	+21 36 52.5	9 8.2	68.17	15 48.04
30	Di	2 41.30	8.44	4 27 58.21	4 4.99	21 46 0.7	8 45.5	68.24	15 47.89
31	Mi	2 32.86	8.85	4 32 3.20	4 5.42	21 54 46.2	8 22.6	68.30	15 47.74
Juni 1	Do	2 24.01	9.26	4 36 8.62	4 5.81	22 3 8.8	7 59.5	68.35	15 47.60
2	Fr	2 14.75		4 40 14.43		22 11 8.3		68.41	15 47.47

Tag	Sternzeit	Länge (Mittleres Äquinoktium 1916.0)	Diff.	Breite	log R	Diff.	Untergang in +50° Breite	Aufgang 0h Länge
	h m s	° ′ ″	′ ″	″			h m	h m
April 24	2 8 43.48	33 57 35.19	58 23.67	−0.06	0.0026531	1177	7 7	16 48
25	2 12 40.03	34 55 58.86	58 22.12	+0.07	0.0027708	1167	7 9	16 46
26	2 16 36.59	35 54 20.98	58 20.57	+0.20	0.0028875	1156	7 10	16 44
27	2 20 33.14	36 52 41.55	58 19.03	+0.32	0.0030031	1144	7 12	16 42
28	2 24 29.70	37 51 0.58	58 17.45	+0.41	0.0031175	1129	7 14	16 41
29	2 28 26.25	38 49 18.03	58 15.82	+0.49	0.0032304	1115	7 15	16 39
30	2 32 22.81	39 47 33.85	58 14.15	+0.54	0.0033419	1099	7 17	16 37
Mai 1	2 36 19.36	40 45 48.00	58 12.44	+0.55	0.0034518	1082	7 18	16 35
2	2 40 15.92	41 44 0.44	58 10.70	+0.55	0.0035600	1067	7 20	16 33
3	2 44 12.48	42 42 11.14	58 8.91	+0.52	0.0036667	1050	7 21	16 32
4	2 48 9.03	43 40 20.05	58 7.11	+0.46	0.0037717	1033	7 23	16 30
5	2 52 5.59	44 38 27.16	58 5.28	+0.36	0.0038750	1018	7 24	16 28
6	2 56 2.14	45 36 32.44	58 3.42	+0.26	0.0039768	1002	7 26	16 27
7	2 59 58.70	46 34 35.86	58 1.57	+0.15	0.0040770	987	7 27	16 25
8	3 3 55.26	47 32 37.43	57 59.73	+0.03	0.0041757	973	7 29	16 23
9	3 7 51.81	48 30 37.16	57 57.89	−0.10	0.0042730	959	7 30	16 22
10	3 11 48.37	49 28 35.05	57 56.05	−0.22	0.0043689	946	7 32	16 20
11	3 15 44.92	50 26 31.10	57 54.22	−0.33	0.0044635	933	7 33	16 19
12	3 19 41.48	51 24 25.32	57 52.45	−0.44	0.0045568	923	7 35	16 17
13	3 23 38.04	52 22 17.77	57 50.71	−0.51	0.0046491	913	7 36	16 16
14	3 27 34.59	53 20 8.48	57 49.01	−0.55	0.0047404	903	7 37	16 15
15	3 31 31.15	54 17 57.49	57 47.40	−0.56	0.0048307	894	7 39	16 13
16	3 35 27.71	55 15 44.89	57 45.90	−0.56	0.0049201	886	7 40	16 12
17	3 39 24.26	56 13 30.79	57 44.49	−0.52	0.0050087	879	7 42	16 10
18	3 43 20.82	57 11 15.28	57 43.18	−0.45	0.0050966	870	7 43	16 9
19	3 47 17.38	58 8 58.46	57 41.96	−0.36	0.0051836	860	7 44	16 8
20	3 51 13.93	59 6 40.42	57 40.85	−0.25	0.0052696	851	7 46	16 7
21	3 55 10.49	60 4 21.27	57 39.79	−0.12	0.0053547	839	7 47	16 5
22	3 59 7.05	61 2 1.06	57 38.80	+0.02	0.0054386	824	7 48	16 4
23	4 3 3.60	61 59 39.86	57 37.85	+0.15	0.0055210	810	7 50	16 3
24	4 7 0.16	62 57 17.71	57 36.91	+0.26	0.0056020	794	7 51	16 2
25	4 10 56.72	63 54 54.62	57 35.99	+0.36	0.0056814	775	7 52	16 1
26	4 14 53.28	64 52 30.61	57 35.07	+0.44	0.0057589	755	7 53	16 0
27	4 18 49.83	65 50 5.68	57 34.14	+0.50	0.0058344	735	7 54	15 59
28	4 22 46.39	66 47 39.82	57 33.20	+0.53	0.0059079	713	7 56	15 58
29	4 26 42.95	67 45 13.02	57 32.21	+0.52	0.0059792	691	7 57	15 57
30	4 30 39.51	68 42 45.23	57 31.20	+0.49	0.0060483	668	7 58	15 57
31	4 34 36.06	69 40 16.43	57 30.17	+0.43	0.0061151	645	7 59	15 56
Juni 1	4 38 32.62	70 37 46.60	57 29.12	+0.35	0.0061796	621	8 0	15 55
2	4 42 29.18	71 35 15.72		+0.25	0.0062417		8 1	15 54

0h mittlere Zeit Greenwich

0h mittlere Zeit Greenwich

Monats- und Wochentag			Zeitgleichung Mittlere — Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchg.-Dauer St.-Zt.	Halbmesser
			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni	1	Do	—2 24.01	9.26	4 36 8.62	4 5.81	+22 3 8.8	7 59.5	68.35	15 47.60
	2	Fr	2 14.75	9.63	4 40 14.43	4 6.19	22 11 8.3	7 36.3	68.41	15 47.47
	3	Sa	2 5.12	9.99	4 44 20.62	4 6.55	22 18 44.6	7 12.9	68.46	15 47.34
	4	St	1 55.13	10.33	4 48 27.17	4 6.89	22 25 57.5	6 49.4	68.51	15 47.21
	5	Mo	1 44.80	10.65	4 52 34.06	4 7.21	22 32 46.9	6 25.7	68.56	15 47.09
	6	Di	—1 34.15	10.95	4 56 41.27	4 7.50	+22 39 12.6	6 1.7	68.61	15 46.97
	7	Mi	1 23.20	11.21	5 0 48.77	4 7.77	22 45 14.3	5 37.9	68.65	15 46.86
	8	Do	1 11.99	11.47	5 4 56.54	4 8.03	22 50 52.2	5 13.8	68.69	15 46.76
	9	Fr	1 0.52	11.70	5 9 4.57	4 8.26	22 56 6.0	4 49.6	68.73	15 46.65
	10	Sa	0 48.82	11.91	5 13 12.83	4 8.46	23 0 55.6	4 25.4	68.76	15 46.55
	11	St	—0 36.91	12.10	5 17 21.29	4 8.66	+23 5 21.0	4 0.9	68.79	15 46.46
	12	Mo	0 24.81	12.27	5 21 29.95	4 8.83	23 9 21.9	3 36.6	68.82	15 46.37
	13	Di	0 12.54	12.42	5 25 38.78	4 8.97	23 12 58.5	3 12.1	68.84	15 46.28
	14	Mi	—0 0.12	12.55	5 29 47.75	4 9.11	23 16 10.6	2 47.5	68.86	15 46.20
	15	Do	+0 12.43	12.67	5 33 56.86	4 9.23	23 18 58.1	2 22.8	68.88	15 46.11
	16	Fr	+0 25.10	12.77	5 38 6.09	4 9.33	+23 21 20.9	1 58.2	68.90	15 46.03
	17	Sa	0 37.87	12.84	5 42 15.42	4 9.40	23 23 19.1	1 33.5	68.91	15 45.96
	18	St	0 50.71	12.92	5 46 24.82	4 9.48	23 24 52.6	1 8.7	68.92	15 45.88
	19	Mo	1 3.63	12.95	5 50 34.30	4 9.51	23 26 1.3	0 44.0	68.92	15 45.81
	20	Di	1 16.58	12.98	5 54 43.81	4 9.54	23 26 45.3	0 19.1	68.92	15 45.74
	21	Mi	+1 29.56	12.98	5 58 53.35	4 9.53	+23 27 4.4	0 5.7	68.92	15 45.68
	22	Do	1 42.54	12.95	6 3 2.88	4 9.51	23 26 58.7	0 30.5	68.92	15 45.62
	23	Fr	1 55.49	12.91	6 7 12.39	4 9.47	23 26 28.2	0 55.4	68.91	15 45.57
	24	Sa	2 8.40	12.83	6 11 21.86	4 9.38	23 25 32.8	1 20.1	68.90	15 45.52
	25	St	2 21.23	12.73	6 15 31.24	4 9.29	23 24 12.7	1 44.8	68.88	15 45.47
	26	Mo	+2 33.96	12.60	6 19 40.53	4 9.16	+23 22 27.9	2 9.6	68.86	15 45.43
	27	Di	2 46.56	12.45	6 23 49.69	4 9.01	23 20 18.3	2 34.2	68.84	15 45.40
	28	Mi	2 59.01	12.27	6 27 58.70	4 8.83	23 17 44.1	2 58.8	68.82	15 45.37
	29	Do	3 11.28	12.06	6 32 7.53	4 8.62	23 14 45.3	3 23.2	68.79	15 45.35
	30	Fr	3 23.34	11.84	6 36 16.15	4 8.39	23 11 22.1	3 47.6	68.76	15 45.33
Juli	1	Sa	+3 35.18	11.58	6 40 24.54	4 8.14	+23 7 34.5	4 11.9	68.73	15 45.32
	2	St	3 46.76	11.30	6 44 32.68	4 7.86	23 3 22.6	4 36.1	68.69	15 45.31
	3	Mo	3 58.06	10.99	6 48 40.54	4 7.55	22 58 46.5	5 0.1	68.65	15 45.31
	4	Di	4 9.05	10.67	6 52 48.09	4 7.22	22 53 46.4	5 24.0	68.61	15 45.31
	5	Mi	4 19.72	10.31	6 56 55.31	4 6.88	22 48 22.4	5 47.8	68.56	15 45.32
	6	Do	+4 30.03	9.95	7 1 2.19	4 6.50	+22 42 34.6	6 11.4	68.51	15 45.34
	7	Fr	4 39.98	9.55	7 5 8.69	4 6.11	22 36 23.2	6 34.7	68.46	15 45.36
	8	Sa	4 49.53	9.14	7 9 14.80	4 5.70	22 29 48.5	6 58.1	68.41	15 45.38
	9	St	4 58.67	8.71	7 13 20.50	4 5.27	22 22 50.4	7 21.2	68.36	15 45.41
	10	Mo	5 7.38		7 17 25.77		22 15 29.2		68.30	15 45.44

Tag		0h mittlere Zeit Greenwich: Sternzeit	Mittleres Äquinoktium 1916.0: Länge	Diff.	Breite	log R	Diff.	Untergang in +50° Breite 0h Länge	Aufgang in +50° Breite 0h Länge
		h m s	° ′ ″	′ ″	″			h m	h m
Juni	1	4 38 32.62	70 37 46.60	57 29.12	+0.35	0.0061796	621	8 0	15 55
	2	4 42 29.18	71 35 15.72	57 28.05	+0.25	0.0062417	599	8 1	15 54
	3	4 46 25.74	72 32 43.77	57 26.98	+0.12	0.0063016	576	8 2	15 54
	4	4 50 22.30	73 30 10.75	57 25.90	−0.01	0.0063592	554	8 3	15 53
	5	4 54 18.85	74 27 36.65	57 24.81	−0.14	0.0064146	532	8 4	15 53
	6	4 58 15.41	75 25 1.46	57 23.71	−0.26	0.0064678	510	8 5	15 52
	7	5 2 11.97	76 22 25.17	57 22.62	−0.37	0.0065188	490	8 6	15 52
	8	5 6 8.53	77 19 47.79	57 21.53	−0.47	0.0065678	471	8 6	15 51
	9	5 10 5.09	78 17 9.32	57 20.48	−0.55	0.0066149	453	8 7	15 51
	10	5 14 1.64	79 14 29.80	57 19.45	−0.61	0.0066602	435	8 8	15 51
	11	5 17 58.20	80 11 49.25	57 18.47	−0.64	0.0067037	419	8 8	15 50
	12	5 21 54.76	81 9 7.72	57 17.57	−0.64	0.0067456	404	8 9	15 50
	13	5 25 51.32	82 6 25.29	57 16.75	−0.61	0.0067860	390	8 10	15 50
	14	5 29 47.88	83 3 42.04	57 16.01	−0.54	0.0068250	377	8 10	15 50
	15	5 33 44.44	84 0 58.05	57 15.38	−0.45	0.0068627	364	8 11	15 50
	16	5 37 40.99	84 58 13.43	57 14.86	−0.34	0.0068991	351	8 11	15 50
	17	5 41 37.55	85 55 28.29	57 14.46	−0.21	0.0069342	338	8 12	15 50
	18	5 45 34.11	86 52 42.75	57 14.17	−0.07	0.0069680	323	8 12	15 50
	19	5 49 30.67	87 49 56.92	57 13.96	+0.07	0.0070003	308	8 12	15 50
	20	5 53 27.23	88 47 10.88	57 13.80	+0.20	0.0070311	290	8 13	15 50
	21	5 57 23.78	89 44 24.68	57 13.68	+0.31	0.0070601	271	8 13	15 50
	22	6 1 20.34	90 41 38.36	57 13.60	+0.39	0.0070872	251	8 13	15 50
	23	6 5 16.90	91 38 51.96	57 13.56	+0.45	0.0071123	230	8 13	15 51
	24	6 9 13.46	92 36 5.52	57 13.52	+0.48	0.0071353	207	8 13	15 51
	25	6 13 10.02	93 33 19.04	57 13.47	+0.48	0.0071560	183	8 13	15 52
	26	6 17 6.58	94 30 32.51	57 13.41	+0.45	0.0071743	159	8 13	15 52
	27	6 21 3.13	95 27 45.92	57 13.33	+0.39	0.0071902	134	8 13	15 53
	28	6 24 59.69	96 24 59.25	57 13.24	+0.30	0.0072036	109	8 13	15 53
	29	6 28 56.25	97 22 12.49	57 13.15	+0.20	0.0072145	83	8 13	15 54
	30	6 32 52.81	98 19 25.64	57 13.05	+0.08	0.0072228	57	8 13	15 54
Juli	1	6 36 49.37	99 16 38.69	57 12.92	−0.05	0.0072285	31	8 13	15 55
	2	6 40 45.92	100 13 51.61	57 12.77	−0.18	0.0072316	6	8 12	15 56
	3	6 44 42.48	101 11 4.38	57 12.62	−0.31	0.0072322	−19	8 12	15 56
	4	6 48 39.04	102 8 17.00	57 12.45	−0.43	0.0072303	44	8 12	15 57
	5	6 52 35.60	103 5 29.45	57 12.29	−0.54	0.0072259	67	8 11	15 58
	6	6 56 32.16	104 2 41.74	57 12.12	−0.63	0.0072192	90	8 11	15 59
	7	7 0 28.71	104 59 53.86	57 11.97	−0.69	0.0072102	112	8 10	16 0
	8	7 4 25.27	105 57 5.83	57 11.83	−0.72	0.0071990	133	8 9	16 1
	9	7 8 21.83	106 54 17.66	57 11.71	−0.73	0.0071857	152	8 9	16 1
	10	7 12 18.39	107 51 29.37		−0.71	0.0071705		8 8	16 2

0ʰ mittlere Zeit Greenwich

Monats- und Wochentag			Zeitgleichung Mittlere Zeit — Wahre Zeit	Diff.	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Halbe Durchg.-Dauer St.-Zt.	Halbmesser
Juli	9	St	+4ᵐ 58.67ˢ	8.71ˢ	7ʰ 13ᵐ 20.50ˢ	4ᵐ 5.27ˢ	+22° 22′ 50.4″	7′ 21.2″	68.36ˢ	15′ 45.41″
	10	Mo	5 7.38	8.27	7 17 25.77	4 4.83	22 15 29.2	7 44.1	68.30	15 45.44
	11	Di	5 15.65	7.81	7 21 30.60	4 4.37	22 7 45.1	8 6.8	68.24	15 45.48
	12	Mi	5 23.46	7.34	7 25 34.97	4 3.89	21 59 38.3	8 29.4	68.17	15 45.52
	13	Do	5 30.80	6.86	7 29 38.86	4 3.42	21 51 8.9	8 51.7	68.11	15 45.56
	14	Fr	+5 37.66	6.37	7 33 42.28	4 2.92	+21 42 17.2	9 14.0	68.04	15 45.61
	15	Sa	5 44.03	5.87	7 37 45.20	4 2.43	21 33 3.2	9 36.0	67.97	15 45.66
	16	St	5 49.90	5.37	7 41 47.63	4 1.93	21 23 27.2	9 57.8	67.90	15 45.71
	17	Mo	5 55.27	4.85	7 45 49.56	4 1.41	21 13 29.4	10 19.4	67.83	15 45.77
	18	Di	6 0.12	4.34	7 49 50.97	4 0.90	21 3 10.0	10 40.8	67.75	15 45.83
	19	Mi	+6 4.46	3.82	7 53 51.87	4 0.37	+20 52 29.2	11 2.1	67.68	15 45.89
	20	Do	6 8.28	3.28	7 57 52.24	3 59.84	20 41 27.1	11 23.0	67.60	15 45.95
	21	Fr	6 11.56	2.73	8 1 52.08	3 59.29	20 30 4.1	11 43.8	67.52	15 46.02
	22	Sa	6 14.29	2.19	8 5 51.37	3 58.74	20 18 20.3	12 4.2	67.44	15 46.10
	23	St	6 16.48	1.62	8 9 50.11	3 58.18	20 6 16.1	12 24.5	67.36	15 46.18
	24	Mo	+6 18.10	1.06	8 13 48.29	3 57.61	+19 53 51.6	12 44.5	67.27	15 46.26
	25	Di	6 19.16	0.47	8 17 45.90	3 57.04	19 41 7.1	13 4.1	67.19	15 46.35
	26	Mi	6 19.63	0.10	8 21 42.94	3 56.45	19 28 3.0	13 23.6	67.11	15 46.44
	27	Do	6 19.53	0.70	8 25 39.39	3 55.86	19 14 39.4	13 42.8	67.02	15 46.54
	28	Fr	6 18.83	1.29	8 29 35.25	3 55.27	19 0 56.6	14 1.6	66.93	15 46.64
	29	Sa	+6 17.54	1.89	8 33 30.52	3 54.66	+18 46 55.0	14 20.2	66.85	15 46.75
	30	St	6 15.65	2.51	8 37 25.18	3 54.05	18 32 34.8	14 38.4	66.76	15 46.86
	31	Mo	6 13.14	3.11	8 41 19.23	3 53.45	18 17 56.4	14 56.4	66.67	15 46.98
Aug.	1	Di	6 10.03	3.72	8 45 12.68	3 52.83	18 3 0.0	15 14.1	66.59	15 47.10
	2	Mi	6 6.31	4.34	8 49 5.51	3 52.22	17 47 45.9	15 31.3	66.50	15 47.23
	3	Do	+6 1.97	4.96	8 52 57.73	3 51.59	+17 32 14.6	15 48.5	66.41	15 47.37
	4	Fr	5 57.01	5.57	8 56 49.32	3 50.99	17 16 26.1	16 5.1	66.33	15 47.51
	5	Sa	5 51.44	6.19	9 0 40.31	3 50.37	17 0 21.0	16 21.6	66.24	15 47.65
	6	St	5 45.25	6.80	9 4 30.68	3 49.75	16 43 59.4	16 37.7	66.16	15 47.80
	7	Mo	5 38.45	7.41	9 8 20.43	3 49.14	16 27 21.7	16 53.4	66.07	15 47.95
	8	Di	+5 31.04	8.02	9 12 9.57	3 48.54	+16 10 28.3	17 9.0	65.99	15 48.11
	9	Mi	5 23.02	8.61	9 15 58.11	3 47.95	15 53 19.3	17 24.2	65.90	15 48.27
	10	Do	5 14.41	9.19	9 19 46.06	3 47.36	15 35 55.1	17 39.1	65.82	15 48.43
	11	Fr	5 5.22	9.78	9 23 33.42	3 46.78	15 18 16.0	17 53.7	65.74	15 48.59
	12	Sa	4 55.44	10.33	9 27 20.20	3 46.23	15 0 22.3	18 8.1	65.65	15 48.76
	13	St	+4 45.11	10.88	9 31 6.43	3 45.67	+14 42 14.2	18 22.1	65.57	15 48.93
	14	Mo	4 34.23	11.42	9 34 52.10	3 45.14	14 23 52.1	18 36.0	65.50	15 49.10
	15	Di	4 22.81	11.94	9 38 37.24	3 44.61	14 5 16.1	18 49.4	65.42	15 49.27
	16	Mi	4 10.87	12.44	9 42 21.85	3 44.11	13 46 26.7	19 2.7	65.34	15 49.44
	17	Do	3 58.43		9 46 5.96		13 27 24.0		65.26	15 49.62

Tag		Sternzeit (0h mittlere Zeit Greenwich)	Mittleres Äquinoktium 1916.0 Länge	Diff.	Breite	log R	Diff.	Untergang in +50° Breite	Aufgang in 0h Länge
Juli	9	7h 8m 21s.83	106° 54′ 17″.66	57′ 11″.71	−0″.73	0.0071857	152	8h 9m	16h 1m
	10	7 12 18.39	107 51 29.37	57 11.64	−0.71	0.0071705	169	8 8	16 2
	11	7 16 14.95	108 48 41.01	57 11.64	−0.65	0.0071536	186	8 8	16 3
	12	7 20 11.50	109 45 52.65	57 11.73	−0.56	0.0071350	201	8 7	16 4
	13	7 24 8.06	110 43 4.38	57 11.91	−0.45	0.0071149	215	8 6	16 5
	14	7 28 4.62	111 40 16.29	57 12.19	−0.32	0.0070934	228	8 5	16 7
	15	7 32 1.18	112 37 28.48	57 12.58	−0.18	0.0070706	242	8 4	16 8
	16	7 35 57.74	113 34 41.06	57 13.08	−0.04	0.0070464	256	8 3	16 9
	17	7 39 54.29	114 31 54.14	57 13.70	+0.09	0.0070208	270	8 2	16 10
	18	7 43 50.85	115 29 7.84	57 14.41	+0.21	0.0069938	285	8 1	16 11
	19	7 47 47.41	116 26 22.25	57 15.18	+0.31	0.0069653	302	8 0	16 12
	20	7 51 43.96	117 23 37.43	57 15.99	+0.39	0.0069351	320	7 59	16 14
	21	7 55 40.52	118 20 53.42	57 16.84	+0.45	0.0069031	339	7 58	16 15
	22	7 59 37.08	119 18 10.26	57 17.71	+0.46	0.0068692	359	7 57	16 16
	23	8 3 33.63	120 15 27.97	57 18.61	+0.44	0.0068333	381	7 56	16 17
	24	8 7 30.19	121 12 46.58	57 19.51	+0.39	0.0067952	403	7 54	16 19
	25	8 11 26.75	122 10 6.09	57 20.40	+0.31	0.0067549	426	7 53	16 20
	26	8 15 23.31	123 7 26.49	57 21.28	+0.21	0.0067123	449	7 52	16 21
	27	8 19 19.86	124 4 47.77	57 22.14	+0.11	0.0066674	473	7 50	16 23
	28	8 23 16.42	125 2 9.91	57 23.00	−0.01	0.0066201	496	7 49	16 24
	29	8 27 12.98	125 59 32.91	57 23.84	−0.14	0.0065705	521	7 48	16 26
	30	8 31 9.53	126 56 56.75	57 24.67	−0.27	0.0065184	545	7 46	16 27
	31	8 35 6.09	127 54 21.42	57 25.48	−0.38	0.0064639	569	7 45	16 28
Aug.	1	8 39 2.65	128 51 46.90	57 26.26	−0.48	0.0064070	592	7 43	16 30
	2	8 42 59.20	129 49 13.16	57 27.02	−0.56	0.0063478	615	7 42	16 31
	3	8 46 55.76	130 46 40.18	57 27.77	−0.63	0.0062863	636	7 40	16 33
	4	8 50 52.31	131 44 7.95	57 28.51	−0.67	0.0062227	658	7 38	16 34
	5	8 54 48.87	132 41 36.46	57 29.25	−0.69	0.0061569	677	7 37	16 36
	6	8 58 45.43	133 39 5.71	57 30.01	−0.67	0.0060892	695	7 35	16 37
	7	9 2 41.98	134 36 35.72	57 30.78	−0.62	0.0060197	712	7 33	16 38
	8	9 6 38.54	135 34 6.50	57 31.59	−0.53	0.0059485	726	7 32	16 40
	9	9 10 35.09	136 31 38.09	57 32.45	−0.43	0.0058759	740	7 30	16 41
	10	9 14 31.65	137 29 10.54	57 33.38	−0.31	0.0058019	752	7 28	16 43
	11	9 18 28.20	138 26 43.92	57 34.41	−0.16	0.0057267	763	7 26	16 44
	12	9 22 24.76	139 24 18.33	57 35.55	−0.02	0.0056504	773	7 25	16 46
	13	9 26 21.31	140 21 53.88	57 36.79	+0.12	0.0055731	782	7 23	16 47
	14	9 30 17.87	141 19 30.67	57 38.12	+0.26	0.0054949	791	7 21	16 49
	15	9 34 14.42	142 17 8.79	57 39.56	+0.37	0.0054158	802	7 19	16 50
	16	9 38 10.98	143 14 48.35	57 41.09	+0.45	0.0053356	813	7 17	16 52
	17	9 42 7.53	144 12 29.44		+0.51	0.0052543		7 15	16 53

0ʰ mittlere Zeit Greenwich

Monats- und Wochentag			Zeitgleichung Mittlere Zeit — Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchg.-Dauer St.-Zt.	Halbmesser
			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Aug.	16	Mi	+4 10.87	12.44	9 42 21.85	3 44.11	+13 46 26.7	19 2.7	65.34	15 49.44
	17	Do	3 58.43	12.95	9 46 5.96	3 43.61	13 27 24.0	19 15.6	65.26	15 49.62
	18	Fr	3 45.48	13.42	9 49 49.57	3 43.13	13 8 8.4	19 28.2	65.19	15 49.80
	19	Sa	3 32.06	13.90	9 53 32.70	3 42.66	12 48 40.2	19 40.5	65.12	15 49.99
	20	St	3 18.16	14.35	9 57 15.36	3 42.21	12 28 59.7	19 52.6	65.05	15 50.17
	21	Mo	+3 3.81	14.80	10 0 57.57	3 41.75	+12 9 7.1	20 4.2	64.98	15 50.36
	22	Di	2 49.01	15.24	10 4 39.32	3 41.32	11 49 2.9	20 15.5	64.91	15 50.55
	23	Mi	2 33.77	15.66	10 8 20.64	3 40.89	11 28 47.4	20 26.6	64.84	15 50.75
	24	Do	2 18.11	16.07	10 12 1.53	3 40.48	11 8 20.8	20 37.2	64.78	15 50.95
	25	Fr	2 2.04	16.47	10 15 42.01	3 40.09	10 47 43.6	20 47.6	64.72	15 51.15
	26	Sa	+1 45.57	16.85	10 19 22.10	3 39.69	+10 26 56.0	20 57.6	64.66	15 51.36
	27	St	1 28.72	17.24	10 23 1.79	3 39.32	10 5 58.4	21 7.2	64.60	15 51.57
	28	Mo	1 11.48	17.59	10 26 41.11	3 38.96	9 44 51.2	21 16.5	64.55	15 51.79
	29	Di	0 53.89	17.95	10 30 20.07	3 38.61	9 23 34.7	21 25.5	64.49	15 52.01
	30	Mi	0 35.94	18.28	10 33 58.68	3 38.27	9 2 9.2	21 34.2	64.44	15 52.24
	31	Do	+0 17.66	18.61	10 37 36.95	3 37.95	+ 8 40 35.0	21 42.4	64.40	15 52.46
Sept.	1	Fr	−0 0.95	18.92	10 41 14.90	3 37.64	8 18 52.6	21 50.3	64.35	15 52.69
	2	Sa	0 19.87	19.21	10 44 52.54	3 37.34	7 57 2.3	21 58.0	64.31	15 52.93
	3	St	0 39.08	19.49	10 48 29.88	3 37.06	7 35 4.3	22 5.1	64.27	15 53.17
	4	Mo	0 58.57	19.76	10 52 6.94	3 36.80	7 12 59.2	22 12.1	64.23	15 53.41
	5	Di	−1 18.33	20.00	10 55 43.74	3 36.55	+ 6 50 47.1	22 18.7	64.19	15 53.66
	6	Mi	1 38.33	20.23	10 59 20.29	3 36.32	6 28 28.4	22 25.0	64.16	15 53.90
	7	Do	1 58.56	20.44	11 2 56.61	3 36.11	6 6 3.4	22 30.9	64.13	15 54.15
	8	Fr	2 19.00	20.63	11 6 32.72	3 35.93	5 43 32.5	22 36.6	64.11	15 54.40
	9	Sa	2 39.63	20.79	11 10 8.65	3 35.76	5 20 55.9	22 41.9	64.08	15 54.65
	10	St	−3 0.42	20.94	11 13 44.41	3 35.62	+ 4 58 14.0	22 47.1	64.06	15 54.90
	11	Mo	3 21.36	21.05	11 17 20.03	3 35.50	4 35 26.9	22 51.8	64.04	15 55.15
	12	Di	3 42.41	21.15	11 20 55.53	3 35.40	4 12 35.1	22 56.2	64.03	15 55.41
	13	Mi	4 3.56	21.22	11 24 30.93	3 35.34	3 49 38.9	23 0.5	64.01	15 55.66
	14	Do	4 24.78	21.26	11 28 6.27	3 35.29	3 26 38.4	23 4.3	64.00	15 55.92
	15	Fr	−4 46.04	21.30	11 31 41.56	3 35.26	+ 3 3 34.1	23 7.9	64.00	15 56.17
	16	Sa	5 7.34	21.29	11 35 16.82	3 35.25	2 40 26.2	23 11.2	63.99	15 56.42
	17	St	5 28.63	21.28	11 38 52.07	3 35.28	2 17 15.0	23 14.0	63.99	15 56.68
	18	Mo	5 49.91	21.24	11 42 27.35	3 35.32	1 54 1.0	23 16.6	63.99	15 56.94
	19	Di	6 11.15	21.18	11 46 2.67	3 35.37	1 30 44.4	23 18.8	64.00	15 57.20
	20	Mi	−6 32.33	21.10	11 49 38.04	3 35.45	+ 1 7 25.6	23 20.7	64.00	15 57.46
	21	Do	6 53.43	21.01	11 53 13.49	3 35.54	0 44 4.9	23 22.3	64.01	15 57.72
	22	Fr	7 14.44	20.89	11 56 49.03	3 35.67	+ 0 20 42.6	23 23.4	64.03	15 57.98
	23	Sa	7 35.33	20.76	12 0 24.70	3 35.79	— 0 2 40.8	23 24.2	64.04	15 58.25
	24	St	7 56.09		12 4 0.49		0 26 5.0		64.06	15 58.51

0h mittlere Zeit Greenwich							Unter-gang	Auf-gang
Tag	Sternzeit	Mittleres Äquinoktium 1916.0 Länge		Breite	log R		in +50° Breite 0h Länge	
	h m s	° ′ ″	′ ″	″			h m	h m
Aug. 16	9 38 10.98	143 14 48.35	57 41.09	+0.45	0.0053356	813	7 17	16 52
17	9 42 7.53	144 12 29.44	57 42.67	+0.51	0.0052543	824	7 15	16 53
18	9 46 4.09	145 10 12.11	57 44.30	+0.53	0.0051719	837	7 13	16 55
19	9 50 0.64	146 7 56.41	57 45.96	+0.52	0.0050882	851	7 12	16 56
20	9 53 57.20	147 5 42.37	57 47.65	+0.49	0.0050031	866	7 10	16 58
21	9 57 53.75	148 3 30.02	57 49.36	+0.43	0.0049165	881	7 8	16 59
22	10 1 50.31	149 1 19.38	57 51.07	+0.36	0.0048284	897	7 6	17 1
23	10 5 46.86	149 59 10.45	57 52.76	+0.25	0.0047387	915	7 4	17 2
24	10 9 43.42	150 57 3.21	57 54.44	+0.13	0.0046472	932	7 2	17 4
25	10 13 39.97	151 54 57.65	57 56.13	+0.01	0.0045540	950	7 0	17 5
26	10 17 36.53	152 52 53.78	57 57.80	−0.11	0.0044590	968	6 58	17 7
27	10 21 33.08	153 50 51.58	57 59.45	−0.22	0.0043622	986	6 55	17 8
28	10 25 29.63	154 48 51.03	58 1.06	−0.33	0.0042636	1004	6 53	17 10
29	10 29 26.19	155 46 52.09	58 2.63	−0.41	0.0041632	1022	6 51	17 11
30	10 33 22.74	156 44 54.72	58 4.17	−0.48	0.0040610	1040	6 49	17 13
31	10 37 19.30	157 42 58.89	58 5.69	−0.52	0.0039570	1057	6 47	17 14
Sept. 1	10 41 15.85	158 41 4.58	58 7.16	−0.55	0.0038513	1073	6 45	17 16
2	10 45 12.40	159 39 11.74	58 8.60	−0.54	0.0037440	1088	6 43	17 17
3	10 49 8.96	160 37 20.34	58 10.04	−0.50	0.0036352	1101	6 41	17 19
4	10 53 5.51	161 35 30.38	58 11.47	−0.42	0.0035251	1112	6 39	17 20
5	10 57 2.07	162 33 41.85	58 12.91	−0.33	0.0034139	1122	6 36	17 22
6	11 0 58.62	163 31 54.76	58 14.39	−0.20	0.0033017	1131	6 34	17 23
7	11 4 55.17	164 30 9.15	58 15.92	−0.06	0.0031886	1137	6 32	17 25
8	11 8 51.73	165 28 25.07	58 17.50	+0.09	0.0030749	1142	6 30	17 26
9	11 12 48.28	166 26 42.57	58 19.12	+0.23	0.0029607	1146	6 28	17 28
10	11 16 44.83	167 25 1.69	58 20.83	+0.36	0.0028461	1148	6 26	17 29
11	11 20 41.39	168 23 22.52	58 22.65	+0.47	0.0027313	1149	6 23	17 31
12	11 24 37.94	169 21 45.17	58 24.58	+0.57	0.0026164	1152	6 21	17 32
13	11 28 34.49	170 20 9.75	58 26.57	+0.63	0.0025012	1154	6 19	17 34
14	11 32 31.05	171 18 36.32	58 28.64	+0.66	0.0023858	1157	6 17	17 35
15	11 36 27.60	172 17 4.96	58 30.76	+0.66	0.0022701	1159	6 15	17 37
16	11 40 24.15	173 15 35.72	58 32.91	+0.63	0.0021542	1164	6 12	17 38
17	11 44 20.71	174 14 8.63	58 35.11	+0.59	0.0020378	1168	6 10	17 40
18	11 48 17.26	175 12 43.74	58 37.32	+0.51	0.0019210	1174	6 8	17 41
19	11 52 13.81	176 11 21.06	58 39.53	+0.42	0.0018036	1180	6 6	17 43
20	11 56 10.37	177 10 0.59	58 41.74	+0.30	0.0016856	1187	6 4	17 44
21	12 0 6.92	178 8 42.33	58 43.94	+0.19	0.0015669	1195	6 1	17 46
22	12 4 3.47	179 7 26.27	58 46.13	+0.08	0.0014474	1202	5 59	17 47
23	12 8 0.02	180 6 12.40	58 48.31	−0.04	0.0013272	1210	5 57	17 49
24	12 11 56.58	181 5 0.71		−0.14	0.0012062		5 55	17 50

0^h mittlere Zeit Greenwich

Monats- und Wochentag		Zeitgleichung Mittlere Zeit — Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchg.-Dauer St.-Zt.	Halbmesser
		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 23	Sa	— 7 35.33	20.76	12 0 24.70	3 35.79	— 0 2 40.8	23 24.2	64.04	15 58.25
24	St	7 56.09	20.59	12 4 0.49	3 35.96	0 26 5.0	23 24.7	64.06	15 58.51
25	Mo	8 16.68	20.43	12 7 36.45	3 36.12	0 49 29.7	23 24.8	64.09	15 58.78
26	Di	8 37.11	20.24	12 11 12.57	3 36.31	1 12 54.5	23 24.5	64.11	15 59.06
27	Mi	8 57.35	20.04	12 14 48.88	3 36.52	1 36 19.0	23 23.8	64.14	15 59.33
28	Do	— 9 17.39	19.81	12 18 25.40	3 36.75	— 1 59 42.8	23 22.8	64.17	15 59.61
29	Fr	9 37.20	19.57	12 22 2.15	3 36.98	2 23 5.6	23 21.4	64.21	15 59.88
30	Sa	9 56.77	19.31	12 25 39.13	3 37.24	2 46 27.0	23 19.6	64.25	16 0.16
Okt. 1	St	10 16.08	19.04	12 29 16.37	3 37.51	3 9 46.6	23 17.4	64.29	16 0.44
2	Mo	10 35.12	18.75	12 32 53.88	3 37.81	3 33 4.0	23 14.9	64.33	16 0.72
3	Di	—10 53.87	18.44	12 36 31.69	3 38.11	— 3 56 18.9	23 12.1	64.38	16 1.01
4	Mi	11 12.31	18.10	12 40 9.80	3 38.45	4 19 31.0	23 8.8	64.43	16 1.29
5	Do	11 30.41	17.76	12 43 48.25	3 38.79	4 42 39.8	23 5.2	64.49	16 1.57
6	Fr	11 48.17	17.39	12 47 27.04	3 39.17	5 5 45.0	23 1.3	64.54	16 1.86
7	Sa	12 5.56	16.99	12 51 6.21	3 39.56	5 28 46.3	22 57.0	64.60	16 2.14
8	St	—12 22.55	16.58	12 54 45.77	3 39.97	— 5 51 43.3	22 52.4	64.66	16 2.42
9	Mo	12 39.13	16.14	12 58 25.74	3 40.42	6 14 35.7	22 47.4	64.73	16 2.70
10	Di	12 55.27	15.68	13 2 6.16	3 40.87	6 37 23.1	22 42.2	64.80	16 2.98
11	Mi	13 10.95	15.20	13 5 47.03	3 41.36	7 0 5.3	22 36.5	64.87	16 3.26
12	Do	13 26.15	14.68	13 9 28.39	3 41.87	7 22 41.8	22 30.6	64.94	16 3.54
13	Fr	—13 40.83	14.16	13 13 10.26	3 42.39	— 7 45 12.4	22 24.1	65.01	16 3.81
14	Sa	13 54.99	13.61	13 16 52.65	3 42.95	8 7 36.5	22 17.5	65.09	16 4.08
15	St	14 8.60	13.03	13 20 35.60	3 43.52	8 29 54.0	22 10.4	65.17	16 4.35
16	Mo	14 21.63	12.44	13 24 19.12	3 44.11	8 52 4.4	22 2.9	65.25	16 4.62
17	Di	14 34.07	11.84	13 28 3.23	3 44.72	9 14 7.3	21 55.0	65.34	16 4.89
18	Mi	—14 45.91	11.20	13 31 47.95	3 45.35	— 9 36 2.3	21 46.9	65.43	16 5.16
19	Do	14 57.11	10.57	13 35 33.30	3 45.99	9 57 49.2	21 38.1	65.52	16 5.42
20	Fr	15 7.68	9.90	13 39 19.29	3 46.65	10 19 27.3	21 29.1	65.61	16 5.69
21	Sa	15 17.58	9.23	13 43 5.94	3 47.33	10 40 56.4	21 19.7	65.70	16 5.95
22	St	15 26.81	8.54	13 46 53.27	3 48.01	11 2 16.1	21 9.8	65.80	16 6.21
23	Mo	—15 35.35	7.84	13 50 41.28	3 48.72	—11 23 25.9	20 59.5	65.90	16 6.48
24	Di	15 43.19	7.12	13 54 30.00	3 49.43	11 44 25.4	20 48.9	66.00	16 6.74
25	Mi	15 50.31	6.39	13 58 19.43	3 50.16	12 5 14.3	20 37.7	66.10	16 7.00
26	Do	15 56.70	5.67	14 2 9.59	3 50.89	12 25 52.0	20 26.2	66.21	16 7.26
27	Fr	16 2.37	4.92	14 6 0.48	3 51.63	12 46 18.2	20 14.2	66.31	16 7.52
28	Sa	—16 7.29	4.18	14 9 52.11	3 52.38	—13 6 32.4	20 1.8	66.42	16 7.78
29	St	16 11.47	3.41	14 13 44.49	3 53.15	13 26 34.2	19 49.0	66.53	16 8.04
30	Mo	16 14.88	2.65	14 17 37.64	3 53.90	13 46 23.2	19 35.9	66.64	16 8.30
31	Di	16 17.53	1.88	14 21 31.54	3 54.68	14 5 59.1	19 22.1	66.76	16 8.56
Nov. 1	Mi	16 19.41		14 25 26.22		14 25 21.2		66.87	16 8.82

Tag	Sternzeit	Mittleres Äquinoktium 1916.0 Länge	Diff.	Breite	log R	Diff.	Unter-gang in + 50° Breite	Auf-gang 0h Länge
	h m s	° ′ ″	′ ″	″			h m	h m
Sept. 23	12 8 0.02	180 6 12.40	58 48.31	−0.04	0.0013272	1210	5 57	17 49
24	12 11 56.58	181 5 0.71	58 50.46	−0.14	0.0012062	1220	5 55	17 50
25	12 15 53.13	182 3 51.17	58 52.57	−0.24	0.0010842	1229	5 53	17 52
26	12 19 49.68	183 2 43.74	58 54.63	−0.31	0.0009613	1238	5 50	17 53
27	12 23 46.24	184 1 38.37	58 56.64	−0.35	0.0008375	1247	5 48	17 55
28	12 27 42.79	185 0 35.01	58 58.58	−0.38	0.0007128	1255	5 46	17 56
29	12 31 39.34	185 59 33.59	59 0.49	−0.38	0.0005873	1263	5 44	17 58
30	12 35 35.90	186 58 34.08	59 2.34	−0.34	0.0004610	1270	5 42	17 59
Okt. 1	12 39 32.45	187 57 36.42	59 4.14	−0.27	0.0003340	1275	5 39	18 1
2	12 43 29.00	188 56 40.56	59 5.90	−0.17	0.0002065	1280	5 37	18 2
3	12 47 25.56	189 55 46.46	59 7.64	−0.06	0.0000785	1282	5 35	18 4
4	12 51 22.11	190 54 54.10	59 9.37	+0.07	9.9999503	1282	5 33	18 5
5	12 55 18.66	191 54 3.47	59 11.11	+0.21	9.9998221	1281	5 31	18 7
6	12 59 15.22	192 53 14.58	59 12.88	+0.35	9.9996940	1278	5 29	18 8
7	13 3 11.77	193 52 27.46	59 14.70	+0.49	9.9995662	1273	5 26	18 10
8	13 7 8.32	194 51 42.16	59 16.57	+0.60	9.9994389	1266	5 24	18 12
9	13 11 4.88	195 50 58.73	59 18.49	+0.69	9.9993123	1260	5 22	18 13
10	13 15 1.43	196 50 17.22	59 20.47	+0.76	9.9991863	1252	5 20	18 15
11	13 18 57.98	197 49 37.69	59 22.52	+0.79	9.9990611	1243	5 18	18 16
12	13 22 54.54	198 49 0.21	59 24.64	+0.80	9.9989368	1234	5 16	18 18
13	13 26 51.09	199 48 24.85	59 26.82	+0.78	9.9988134	1226	5 14	18 20
14	13 30 47.64	200 47 51.67	59 29.05	+0.72	9.9986908	1219	5 12	18 21
15	13 34 44.20	201 47 20.72	59 31.31	+0.65	9.9985689	1212	5 10	18 23
16	13 38 40.75	202 46 52.03	59 33.57	+0.55	9.9984477	1205	5 8	18 24
17	13 42 37.31	203 46 25.60	59 35.83	+0.45	9.9983272	1200	5 6	18 26
18	13 46 33.86	204 46 1.43	59 38.10	+0.34	9.9982072	1194	5 4	18 28
19	13 50 30.41	205 45 39.53	59 40.38	+0.21	9.9980878	1189	5 2	18 29
20	13 54 26.97	206 45 19.91	59 42.64	+0.10	9.9979689	1185	5 0	18 31
21	13 58 23.52	207 45 2.55	59 44.88	0.00	9.9978504	1182	4 58	18 32
22	14 2 20.08	208 44 47.43	59 47.08	−0.08	9.9977322	1180	4 56	18 34
23	14 6 16.63	209 44 34.51	59 49.24	−0.15	9.9976142	1177	4 54	18 36
24	14 10 13.18	210 44 23.75	59 51.35	−0.21	9.9974965	1174	4 52	18 37
25	14 14 9.74	211 44 15.10	59 53.38	−0.23	9.9973791	1173	4 50	18 39
26	14 18 6.29	212 44 8.48	59 55.34	−0.24	9.9972618	1173	4 48	18 41
27	14 22 2.85	213 44 3.82	59 57.22	−0.21	9.9971445	1170	4 47	18 42
28	14 25 59.40	214 44 1.04	59 59.03	−0.14	9.9970275	1168	4 45	18 44
29	14 29 55.96	215 44 0.07	60 0.77	−0.05	9.9969107	1164	4 43	18 46
30	14 33 52.51	216 44 0.84	60 2.42	+0.06	9.9967943	1160	4 41	18 47
31	14 37 49.07	217 44 3.26	60 4.03	+0.18	9.9966783	1153	4 39	18 49
Nov. 1	14 41 45.62	218 44 7.29		+0.32	9.9965630		4 38	18 51

0^h mittlere Zeit Greenwich

Monats- und Wochentag			Zeitgleichung Mittlere Zeit — Wahre Zeit (m s)		Scheinbare Rektaszension (h m s)	(m s)	Scheinbare Deklination (° ′ ″)	(′ ″)	Halbe Durchg.-Dauer St.-Zt. (s)	Halbmesser (′ ″)
Okt.	31	Di	—16 17.53	1.88	14 21 31.54	3 54.68	—14 5 59.1	19 22.1	66.76	16 8.56
Nov.	1	Mi	16 19.41	1.10	14 25 26.22	3 55.45	14 25 21.2	19 8.1	66.87	16 8.82
	2	Do	16 20.51	0.32	14 29 21.67	3 56.24	14 44 29.3	18 53.7	66.99	16 9.07
	3	Fr	16 20.83	0.48	14 33 17.91	3 57.03	15 3 23.0	18 38.8	67.10	16 9.33
	4	Sa	16 20.35	1.28	14 37 14.94	3 57.84	15 22 1.8	18 23.6	67.22	16 9.58
	5	St	—16 19.07	2.10	14 41 12.78	3 58.65	—15 40 25.4	18 8.0	67.34	16 9.83
	6	Mo	16 16.97	2.92	14 45 11.43	3 59.47	15 58 33.4	17 52.1	67.46	16 10.07
	7	Di	16 14.05	3.74	14 49 10.90	4 0.30	16 16 25.5	17 35.6	67.57	16 10.31
	8	Mi	16 10.31	4.58	14 53 11.20	4 1.14	16 34 1.1	17 18.8	67.69	16 10.55
	9	Do	16 5.73	5.42	14 57 12.34	4 1.97	16 51 19.9	17 1.7	67.81	16 10.78
	10	Fr	—16 0.31	6.27	15 1 14.31	4 2.83	—17 8 21.6	16 44.2	67.93	16 11.01
	11	Sa	15 54.04	7.13	15 5 17.14	4 3.69	17 25 5.8	16 26.2	68.05	16 11.24
	12	St	15 46.91	7.98	15 9 20.83	4 4.54	17 41 32.0	16 7.9	68.17	16 11.46
	13	Mo	15 38.93	8.85	15 13 25.37	4 5.40	17 57 39.9	15 49.2	68.29	16 11.67
	14	Di	15 30.08	9.71	15 17 30.77	4 6.27	18 13 29.1	15 30.1	68.41	16 11.89
	15	Mi	—15 20.37	10.57	15 21 37.04	4 7.12	—18 28 59.2	15 10.6	68.53	16 12.10
	16	Do	15 9.80	11.42	15 25 44.16	4 7.98	18 44 9.8	14 50.7	68.64	16 12.30
	17	Fr	14 58.38	12.28	15 29 52.14	4 8.84	18 59 0.5	14 30.4	68.76	16 12.50
	18	Sa	14 46.10	13.13	15 34 0.98	4 9.68	19 13 30.9	14 9.7	68.87	16 12.70
	19	St	14 32.97	13.96	15 38 10.66	4 10.52	19 27 40.6	13 48.7	68.99	16 12.90
	20	Mo	—14 19.01	14.80	15 42 21.18	4 11.35	—19 41 29.3	13 27.2	69.10	16 13.09
	21	Di	14 4.21	15.61	15 46 32.53	4 12.18	19 54 56.5	13 5.5	69.21	16 13.28
	22	Mi	13 48.60	16.42	15 50 44.71	4 12.98	20 8 2.0	12 43.2	69.32	16 13.46
	23	Do	13 32.18	17.22	15 54 57.69	4 13.77	20 20 45.2	12 20.8	69.43	16 13.65
	24	Fr	13 14.96	17.98	15 59 11.46	4 14.54	20 33 6.0	11 57.8	69.54	16 13.83
	25	Sa	—12 56.98	18.74	16 3 26.00	4 15.29	—20 45 3.8	11 34.5	69.64	16 14.01
	26	St	12 38.24	19.47	16 7 41.29	4 16.03	20 56 38.3	11 11.0	69.75	16 14.18
	27	Mo	12 18.77	20.18	16 11 57.32	4 16.74	21 7 49.3	10 47.1	69.85	16 14.36
	28	Di	11 58.59	20.87	16 16 14.06	4 17.43	21 18 36.4	10 22.8	69.94	16 14.53
	29	Mi	11 37.72	21.54	16 20 31.49	4 18.10	21 28 59.2	9 58.3	70.04	16 14.70
	30	Do	—11 16.18	22.18	16 24 49.59	4 18.74	—21 38 57.5	9 33.4	70.13	16 14.86
Dez.	1	Fr	10 54.00	22.81	16 29 8.33	4 19.36	21 48 30.9	9 8.4	70.22	16 15.02
	2	Sa	10 31.19	23.40	16 33 27.69	4 19.96	21 57 39.3	8 43.0	70.31	16 15.18
	3	St	10 7.79	23.99	16 37 47.65	4 20.55	22 6 22.3	8 17.3	70.39	16 15.33
	4	Mo	9 43.80	24.54	16 42 8.20	4 21.10	22 14 39.6	7 51.5	70.47	16 15.48
	5	Di	— 9 19.26	25.08	16 46 29.30	4 21.63	—22 22 31.1	7 25.5	70.55	16 15.62
	6	Mi	8 54.18	25.58	16 50 50.93	4 22.15	22 29 56.6	6 59.0	70.62	16 15.76
	7	Do	8 28.60	26.09	16 55 13.08	4 22.64	22 36 55.6	6 32.6	70.69	16 15.89
	8	Fr	8 2.51	26.54	16 59 35.72	4 23.10	22 43 28.2	6 5.8	70.76	16 16.02
	9	Sa	7 35.97		17 3 58.82		22 49 34.0		70.82	16 16.14

0^h mittlere Zeit Greenwich							Untergang	Aufgang
Tag	Sternzeit	Mittleres Äquinoktium 1916.0 Länge		Breite	log *R*		in +50° Breite 0^h Länge	
	h m s	° ′ ″	′ ″	″			h m	h m
Okt. 31	14 37 49.07	217 44 3.26	60 4.03	+0.18	9.9966783	1153	4 39	18 49
Nov. 1	14 41 45.62	218 44 7.29	60 5.58	+0.32	9.9965630	1145	4 38	18 51
2	14 45 42.18	219 44 12.87	60 7.10	+0.47	9.9964485	1136	4 36	18 52
3	14 49 38.73	220 44 19.97	60 8.63	+0.60	9.9963349	1124	4 34	18 54
4	14 53 35.29	221 44 28.60	60 10.16	+0.72	9.9962225	1110	4 33	18 56
5	14 57 31.85	222 44 38.76	60 11.70	+0.81	9.9961115	1096	4 31	18 57
6	15 1 28.40	223 44 50.46	60 13.26	+0.88	9.9960019	1079	4 29	18 59
7	15 5 24.96	224 45 3.72	60 14.87	+0.91	9.9958940	1062	4 28	19 1
8	15 9 21.51	225 45 18.59	60 16.52	+0.92	9.9957878	1044	4 26	19 2
9	15 13 18.07	226 45 35.11	60 18.22	+0.89	9.9956834	1025	4 25	19 4
10	15 17 14.63	227 45 53.33	60 19.96	+0.85	9.9955809	1006	4 23	19 6
11	15 21 11.18	228 46 13.29	60 21.72	+0.78	9.9954803	988	4 22	19 7
12	15 25 7.74	229 46 35.01	60 23.52	+0.68	9.9953815	969	4 20	19 9
13	15 29 4.29	230 46 58.53	60 25.34	+0.58	9.9952846	951	4 19	19 11
14	15 33 0.85	231 47 23.87	60 27.16	+0.45	9.9951895	934	4 18	19 12
15	15 36 57.41	232 47 51.03	60 28.99	+0.33	9.9950961	917	4 17	19 14
16	15 40 53.96	233 48 20.02	60 30.80	+0.21	9.9950044	900	4 15	19 15
17	15 44 50.52	234 48 50.82	60 32.60	+0.10	9.9949144	885	4 14	19 17
18	15 48 47.08	235 49 23.42	60 34.38	+0.01	9.9948259	870	4 13	19 19
19	15 52 43.63	236 49 57.80	60 36.13	−0.07	9.9947389	856	4 12	19 20
20	15 56 40.19	237 50 33.93	60 37.84	−0.12	9.9946533	843	4 11	19 22
21	16 0 36.75	238 51 11.77	60 39.48	−0.15	9.9945690	830	4 10	19 23
22	16 4 33.30	239 51 51.25	60 41.07	−0.14	9.9944860	819	4 9	19 25
23	16 8 29.86	240 52 32.32	60 42.59	−0.11	9.9944041	807	4 8	19 26
24	16 12 26.42	241 53 14.91	60 44.01	−0.06	9.9943234	797	4 7	19 28
25	16 16 22.98	242 53 58.92	60 45.33	+0.04	9.9942437	786	4 6	19 29
26	16 20 19.53	243 54 44.25	60 46.55	+0.15	9.9941651	775	4 5	19 31
27	16 24 16.09	244 55 30.80	60 47.65	+0.28	9.9940876	763	4 4	19 32
28	16 28 12.65	245 56 18.45	60 48.66	+0.42	9.9940113	750	4 3	19 34
29	16 32 9.21	246 57 7.11	60 49.59	+0.56	9.9939363	735	4 3	19 35
30	16 36 5.77	247 57 56.70	60 50.47	+0.70	9.9938628	719	4 2	19 36
Dez. 1	16 40 2.32	248 58 47.17	60 51.30	+0.81	9.9937909	700	4 2	19 38
2	16 43 58.88	249 59 38.47	60 52.10	+0.90	9.9937209	681	4 1	19 39
3	16 47 55.44	251 0 30.57	60 52.90	+0.98	9.9936528	660	4 0	19 40
4	16 51 52.00	252 1 23.47	60 53.68	+1.02	9.9935868	638	4 0	19 41
5	16 55 48.56	253 2 17.15	60 54.48	+1.03	9.9935230	613	4 0	19 43
6	16 59 45.11	254 3 11.63	60 55.29	+1.01	9.9934617	589	3 59	19 44
7	17 3 41.67	255 4 6.92	60 56.13	+0.97	9.9934028	563	3 59	19 45
8	17 7 38.23	256 5 3.05	60 56.99	+0.89	9.9933465	537	3 59	19 46
9	17 11 34.79	257 6 0.04		+0.79	9.9932928		3 59	19 47

0^h mittlere Zeit Greenwich

Monats- und Wochentag		Zeitgleichung Mittlere — Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchg.-Dauer St.-Zt.	Halbmesser
Dez. 8	Fr	−8m 2.51s	26.54s	16h 59m 35.72s	4m 23.10s	−22° 43′ 28.2″	6′ 5.8″	70.76s	16′ 16.02″
9	Sa	7 35.97	26.98	17 3 58.82	4 23.54	22 49 34.0	5 38.8	70.82	16 16.14
10	St	7 8.99	27.41	17 8 22.36	4 23.96	22 55 12.8	5 11.7	70.88	16 16.26
11	Mo	6 41.58	27.79	17 12 46.32	4 24.36	23 0 24.5	4 44.4	70.93	16 16.37
12	Di	6 13.79	28.16	17 17 10.68	4 24.71	23 5 8.9	4 17.0	70.98	16 16.47
13	Mi	−5 45.63	28.49	17 21 35.39	4 25.05	−23 9 25.9	3 49.3	71.03	16 16.57
14	Do	5 17.14	28.79	17 26 0.44	4 25.35	23 13 15.2	3 21.6	71.07	16 16.66
15	Fr	4 48.35	29.07	17 30 25.79	4 25.63	23 16 36.8	2 53.6	71.11	16 16.74
16	Sa	4 19.28	29.31	17 34 51.42	4 25.86	23 19 30.4	2 25.8	71.14	16 16.83
17	St	3 49.97	29.52	17 39 17.28	4 26.08	23 21 56.2	1 57.6	71.16	16 16.90
18	Mo	−3 20.45	29.69	17 43 43.36	4 26.26	−23 23 53.8	1 29.4	71.19	16 16.97
19	Di	2 50.76	29.84	17 48 9.62	4 26.39	23 25 23.2	1 1.2	71.21	16 17.04
20	Mi	2 20.92	29.95	17 52 36.01	4 26.51	23 26 24.4	0 32.9	71.22	16 17.10
21	Do	1 50.97	30.01	17 57 2.52	4 26.57	23 26 57.3	0 4.6	71.23	16 17.16
22	Fr	1 20.96	30.05	18 1 29.09	4 26.61	23 27 1.9	0 23.7	71.23	16 17.21
23	Sa	−0 50.91	30.04	18 5 55.70	4 26.59	−23 26 38.2	0 52.0	71.23	16 17.26
24	St	−0 20.87	29.99	18 10 22.29	4 26.56	23 25 46.2	1 20.4	71.23	16 17.31
25	Mo	+0 9.12	29.90	18 14 48.85	4 26.46	23 24 25.8	1 48.6	71.22	16 17.35
26	Di	0 39.02	29.78	18 19 15.31	4 26.33	23 22 37.2	2 16.8	71.21	16 17.39
27	Mi	1 8.80	29.61	18 23 41.64	4 26.17	23 20 20.4	2 44.9	71.19	16 17.43
28	Do	+1 38.41	29.41	18 28 7.81	4 25.97	−23 17 35.5	3 13.0	71.17	16 17.46
29	Fr	2 7.82	29.16	18 32 33.78	4 25.72	23 14 22.5	3 40.8	71.14	16 17.49
30	Sa	2 36.98	28.90	18 36 59.50	4 25.46	23 10 41.7	4 8.7	71.11	16 17.51
31	St	3 5.88	28.59	18 41 24.96	4 25.15	23 6 33.0	4 36.3	71.07	16 17.53
32	Mo	3 34.47		18 45 50.11		23 1 56.7		71.03	16 17.54

Aberration und Parallaxe.

Tag 0^h	Ab.	Par.	Tag 0^h	Ab.	Par.	Tag 0^h	Ab.	Par.	Tag 0^h	Ab.	Par.
Jan. 1	20.82″	8.95″	April 10	20.42″	8.78″	Juli 19	20.14″	8.66″	Okt. 27	20.61″	8.86″
11	20.81	8.95	20	20.37	8.76	29	20.16	8.67	Nov. 6	20.66	8.88
21	20.80	8.94	30	20.31	8.73	Aug. 8	20.19	8.68	16	20.71	8.90
31	20.78	8.93	Mai 10	20.27	8.71	18	20.23	8.70	26	20.75	8.92
Febr. 10	20.74	8.92	20	20.22	8.69	28	20.27	8.71	Dez. 6	20.78	8.93
20	20.70	8.90	30	20.19	8.68	Sept. 7	20.32	8.74	16	20.80	8.94
März 1	20.65	8.88	Juni 9	20.16	8.67	17	20.37	8.76	26	20.82	8.95
11	20.60	8.86	19	20.14	8.66	27	20.43	8.78	36	20.82	8.95
21	20.54	8.83	29	20.13	8.66	Okt. 7	20.49	8.81			
31	20.48	8.81	Juli 9	20.13	8.66	17	20.55	8.83			

Tag	Sternzeit	0h mittlere Zeit Greenwich — Mittleres Äquinoktium 1916.0 Länge		Breite	log R		Untergang in +50° Breite 0h Länge	Aufgang in +50° Breite 0h Länge
	h m s	° ′ ″	′ ″	″			h m	h m
Dez. 8	17 7 38.23	256 5 3.05	60 56.99	+0.89	9.9933465	537	3 59	19 46
9	17 11 34.79	257 6 0.04	60 57.86	+0.79	9.9932928	511	3 59	19 47
10	17 15 31.35	258 6 57.90	60 58.76	+0.68	9.9932417	485	3 58	19 48
11	17 19 27.91	259 7 56.66	60 59.68	+0.56	9.9931932	459	3 58	19 49
12	17 23 24.46	260 8 56.34	61 0.60	+0.44	9.9931473	434	3 58	19 50
13	17 27 21.02	261 9 56.94	61 1.52	+0.31	9.9931039	409	3 58	19 51
14	17 31 17.58	262 10 58.46	61 2.43	+0.19	9.9930630	384	3 58	19 52
15	17 35 14.14	263 12 0.89	61 3.34	+0.09	9.9930246	360	3 58	19 53
16	17 39 10.70	264 13 4.23	61 4.24	0.00	9.9929886	338	3 59	19 53
17	17 43 7.26	265 14 8.47	61 5.10	−0.06	9.9929548	316	3 59	19 54
18	17 47 3.82	266 15 13.57	61 5.94	−0.10	9.9929232	294	3 59	19 55
19	17 51 0.37	267 16 19.51	61 6.75	−0.11	9.9928938	275	4 0	19 55
20	17 54 56.93	268 17 26.26	61 7.50	−0.08	9.9928663	256	4 0	19 56
21	17 58 53.49	269 18 33.76	61 8.17	−0.04	9.9928407	238	4 0	19 57
22	18 2 50.05	270 19 41.93	61 8.75	+0.04	9.9928169	223	4 1	19 57
23	18 6 46.61	271 20 50.68	61 9.22	+0.15	9.9927946	206	4 1	19 57
24	18 10 43.17	272 21 59.90	61 9.58	+0.28	9.9927740	191	4 2	19 58
25	18 14 39.73	273 23 9.48	61 9.83	+0.41	9.9927549	175	4 3	19 58
26	18 18 36.29	274 24 19.31	61 9.96	+0.55	9.9927374	159	4 3	19 58
27	18 22 32.84	275 25 29.27	61 9.99	+0.69	9.9927215	142	4 4	19 59
28	18 26 29.40	276 26 39.26	61 9.93	+0.82	9.9927073	124	4 5	19 59
29	18 30 25.96	277 27 49.19	61 9.79	+0.92	9.9926949	104	4 6	19 59
30	18 34 22.52	278 28 58.98	61 9.58	+1.00	9.9926845	84	4 7	19 59
31	18 38 19.08	279 30 8.56	61 9.34	+1.05	9.9926761	60	4 8	19 59
32	18 42 15.64	280 31 17.90		+1.08	9.9926701		4 9	19 59

Mittlere Länge ($L_\odot$) und mittlere Anomalie ($M_\odot$).

Datum	$L_\odot$	$M_\odot$	Datum	$L_\odot$	$M_\odot$	Datum	$L_\odot$	$M_\odot$	Datum	$L_\odot$	$M_\odot$
	°	°		°	°		°	°		°	°
Jan. 1.5	280.3125	358.82	April 10.5	18.8772	97.38	Juli 19.5	117.4420	195.94	Okt. 27.5	216.0067	294.50
11.5	290.1690	8.68	20.5	28.7337	107.24	29.5	127.2984	205.80	Nov. 6.5	225.8632	304.36
21.5	300.0254	18.53	30.5	38.5902	117.09	Aug. 8.5	137.1549	215.65	16.5	235.7196	314.21
31.5	309.8819	28.39	Mai 10.5	48.4466	126.95	18.5	147.0114	225.51	26.5	245.5761	324.07
Febr. 10.5	319.7384	38.24	20.5	58.3031	136.80	28.5	156.8679	235.36	Dez. 6.5	255.4326	333.92
20.5	329.5949	48.10	30.5	68.1596	146.66	Sept. 7.5	166.7243	245.22	16.5	265.2891	343.78
März 1.5	339.4513	57.96	Juni 9.5	78.0161	156.52	17.5	176.5808	255.08	26.5	275.1455	353.64
11.5	349.3078	67.81	19.5	87.8725	166.37	27.5	186.4373	264.93	36.5	285.0020	3.49
21.5	359.1643	77.67	29.5	97.7290	176.23	Okt. 7.5	196.2937	274.79			
31.5	9.0208	87.52	Juli 9.5	107.5855	186.08	17.5	206.1502	284.64			

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
Jan. 1.0	+0.166 6207	7184.6		−0.889 0290	1134.8		−0.385 6455	492.4	
1.5	0.175 2359	7173.9	+21215	0.887 6324	1192.8	+3546	0.385 0395	517.5	+1542
2.0	0.183 8379	7162.5		0.886 1663	1250.6		0.384 4034	542.7	
2.5	0.192 4257	7150.4	21142	0.884 6310	1308.3	3892	0.383 7371	567.7	1692
3.0	0.200 9987	7137.8		0.883 0265	1365.9		0.383 0409	592.7	
3.5	0.209 5561	7124.5	21063	0.881 3528	1423.5	4236	0.382 3147	617.7	1842
4.0	0.218 0973	7110.7		0.879 6101	1481.0		0.381 5585	642.7	
4.5	0.226 6214	7096.1	20978	0.877 7985	1538.4	4579	0.380 7723	667.6	1991
5.0	0.235 1278	7081.1		0.875 9181	1595.5		0.379 9563	692.4	
5.5	0.243 6158	7065.5	20886	0.873 9693	1652.5	4920	0.379 1105	717.2	2140
6.0	+0.252 0847	7049.2		−0.871 9521	1709.5		−0.378 2351	741.8	
6.5	0.260 5337	7032.4	+20788	0.869 8666	1766.2	+5260	0.377 3301	766.4	+2288
7.0	0.268 9622	7015.0		0.867 7132	1822.8		0.376 3957	790.9	
7.5	0.277 3694	6996.9	20683	0.865 4920	1879.2	5598	0.375 4319	815.4	2435
8.0	0.285 7546	6978.4		0.863 2033	1935.4		0.374 4388	839.8	
8.5	0.294 1173	6959.3	20572	0.860 8472	1991.5	5935	0.373 4164	864.1	2581
9.0	0.302 4567	6939.6		0.858 4239	2047.3		0.372 3650	888.3	
9.5	0.310 7721	6919.3	20454	0.855 9337	2103.0	6270	0.371 2845	912.4	2727
10.0	0.319 0629	6898.5		0.853 3769	2158.4		0.370 1750	936.6	
10.5	0.327 3284	6877.3	20330	0.850 7537	2213.6	6603	0.369 0368	960.4	2872
11.0	+0.335 5681	6855.5		−0.848 0643	2268.7		−0.367 8701	984.2	
11.5	0.343 7813	6833.1	+20199	0.845 3089	2323.6	+6934	0.366 6748	1008.0	+3016
12.0	0.351 9673	6810.2		0.842 4879	2378.1		0.365 4510	1031.6	
12.5	0.360 1256	6786.9	20062	0.839 6018	2432.3	7263	0.364 1989	1055.1	3158
13.0	0.368 2557	6763.1		0.836 6505	2486.6		0.362 9187	1078.6	
13.5	0.376 3568	6738.7	19919	0.833 6341	2540.6	7589	0.361 6103	1102.1	3300
14.0	0.384 4284	6713.8		0.830 5532	2594.2		0.360 2738	1125.3	
14.5	0.392 4698	6688.4	19770	0.827 4081	2647.7	7913	0.358 9096	1148.4	3441
15.0	0.400 4804	6662.6		0.824 1990	2701.0		0.357 5176	1171.5	
15.5	0.408 4598	6636.3	19615	0.820 9259	2754.1	8234	0.356 0979	1194.5	3581
16.0	+0.416 4073	6609.4		−0.817 5894	2806.8		−0.354 6508	1217.3	
16.5	0.424 3223	6582.2	+19454	0.814 1897	2859.4	+8553	0.353 1764	1240.1	+3720
17.0	0.432 2043	6554.4		0.810 7270	2911.8		0.351 6746	1262.9	
17.5	0.440 0526	6526.1	19286	0.807 2016	2963.9	8869	0.350 1456	1285.5	3857
18.0	0.447 8667	6497.3		0.803 6138	3015.8		0.348 5895	1308.0	
18.5	0.455 6460	6468.1	19112	0.799 9639	3067.3	9182	0.347 0065	1330.3	3993
19.0	0.463 3900	6438.5		0.796 2523	3118.7		0.345 3968	1352.6	
19.5	0.471 0983	6408.5	18933	0.792 4791	3169.9	9493	0.343 7604	1374.7	4128
20.0	0.478 7702	6377.9		0.788 6447	3220.8		0.342 0975	1396.8	
20.5	0.486 4051	6346.8	18748	0.784 7493	3271.5	9801	0.340 4081	1418.8	4262

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Jan. 21.0	+0.494 0024	6315.3		−0.780 7933	3321.9		−0.338 6924	1440.7	
21.5	0.501 5616	6283.3	+18557	0.776 7768	3372.1	+10106	0.336 9504	1462.6	+4395
22.0	0.509 0821	6250.9		0.772 7003	3422.1		0.335 1823	1484.2	
22.5	0.516 5635	6218.0	18360	0.768 5640	3471.7	10408	0.333 3884	1505.7	4526
23.0	0.524 0051	6184.6		0.764 3684	3521.0		0.331 5687	1527.1	
23.5	0.531 4064	6150.9	18158	0.760 1136	3570.2	10706	0.329 7234	1548.4	4656
24.0	0.538 7670	6116.7		0.755 8000	3619.1		0.327 8525	1569.7	
24.5	0.546 0862	6081.9	17950	0.751 4278	3667.8	11001	0.325 9561	1590.9	4784
25.0	0.553 3634	6046.6		0.746 9973	3716.3		0.324 0344	1611.8	
25.5	0.560 5980	6011.0	17736	0.742 5088	3764.4	11292	0.322 0877	1632.7	4911
26.0	+0.567 7896	5974.9		−0.737 9628	3812.2		−0.320 1159	1653.6	
26.5	0.574 9376	5938.3	+17517	0.733 3595	3859.9	+11580	0.318 1191	1674.3	+5036
27.0	0.582 0413	5901.3		0.728 6992	3907.3		0.316 0976	1694.9	
27.5	0.589 1004	5863.9	17293	0.723 9822	3954.3	11865	0.314 0514	1715.3	5160
28.0	0.596 1143	5825.9		0.719 2090	4001.0		0.311 9809	1735.6	
28.5	0.603 0824	5787.4	17063	0.714 3798	4047.5	12146	0.309 8861	1755.9	5282
29.0	0.610 0040	5748.5		0.709 4951	4093.6		0.307 7671	1775.9	
29.5	0.616 8787	5709.1	16828	0.704 5552	4139.5	12423	0.305 6240	1795.8	5403
30.0	0.623 7057	5669.2		0.699 5604	4185.1		0.303 4571	1815.6	
30.5	0.630 4846	5628.9	16588	0.694 5110	4230.5	12696	0.301 2666	1835.3	5522
31.0	+0.637 2148	5588.1		−0.689 4074	4275.4		−0.299 0525	1854.9	
31.5	0.643 8958	5546.8	+16342	0.684 2501	4320.0	+12966	0.296 8150	1874.2	+5639
Febr. 1.0	0.650 5270	5505.1		0.679 0396	4364.2		0.294 5545	1893.4	
1.5	0.657 1078	5462.8	16091	0.673 7761	4408.2	13232	0.292 2709	1912.5	5754
2.0	0.663 6376	5420.1		0.668 4601	4451.8		0.289 9645	1931.4	
2.5	0.670 1159	5377.0	15835	0.663 0920	4494.9	13493	0.287 6355	1950.2	5868
3.0	0.676 5422	5333.4		0.657 6724	4537.7		0.285 2842	1968.6	
3.5	0.682 9160	5289.4	15574	0.652 2016	4580.1	13750	0.282 9109	1986.9	5980
4.0	0.689 2367	5245.0		0.646 6803	4622.1		0.280 5157	2005.1	
4.5	0.695 5038	5200.2	15309	0.641 1088	4663.7	14003	0.278 0986	2023.2	6090
5.0	+0.701 7169	5154.9		−0.635 4876	4714.9		−0.275 6599	2041.2	
5.5	0.707 8754	5109.2	+15039	0.629 8172	4745.7	+14251	0.273 1998	2058.9	+6198
6.0	0.713 9788	5063.1		0.624 0981	4786.1		0.270 7187	2076.4	
6.5	0.720 0266	5016.6	14764	0.618 3308	4826.0	14495	0.268 2167	2093.7	6304
7.0	0.726 0185	4969.9		0.612 5159	4865.5		0.265 6940	2110.8	
7.5	0.731 9542	4922.8	14485	0.606 6537	4904.7	14735	0.263 1509	2127.7	6408
8.0	0.737 8331	4875.2		0.600 7449	4943.3		0.260 5876	2144.4	
8.5	0.743 6546	4827.3	14201	0.594 7899	4981.6	14970	0.258 0043	2161.0	6510
9.0	0.749 4185	4779.1		0.588 7892	5019.5		0.255 4012	2177.4	
9.5	0.755 1244	4730.6	13913	0.582 7432	5057.0	15200	0.252 7786	2193.6	6611

Mittleres Äquinoktium 1916.0

1916	*X*	Stündliche Änderung	Reduktion auf 1925.0	*Y*	Stündliche Änderung	Reduktion auf 1925.0	*Z*	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Febr. 9.0	+0.749 4185	4779.1		−0.588 7892	5019.5		−0.255 4012	2177.4	
9.5	0.755 1244	4730.6	+13913	0.582 7432	5057.0	+15200	0.252 7786	2193.6	+6611
10.0	0.760 7719	4681.8		0.576 6526	5093.9		0.250 1367	2209.6	
10.5	0.766 3605	4632.5	13620	0.570 5179	5130.5	15426	0.247 4757	2225.4	6709
11.0	0.771 8898	4583.0		0.564 3396	5166.6		0.244 7958	2241.1	
11.5	0.777 3596	4533.3	13323	0.558 1182	5202.3	15647	0.242 0972	2256.6	6805
12.0	0.782 7696	4483.2		0.551 8542	5237.7		0.239 3801	2271.9	
12.5	0.788 1192	4432.8	13022	0.545 5480	5272.5	15863	0.236 6448	2287.0	6899
13.0	0.793 4081	4382.1		0.539 2003	5317.0		0.233 8914	2302.0	
13.5	0.798 6360	4331.1	12717	0.532 8114	5341.1	16074	0.231 1202	2316.7	6991
14.0	+0.803 8025	4279.8		−0.526 3819	5374.7		−0.228 3315	2331.2	
14.5	0.808 9073	4228.2	+12409	0.519 9122	5408.0	+16280	0.225 5254	2345.6	+7081
15.0	0.813 9500	4176.3		0.513 4030	5440.7		0.222 7021	2359.8	
15.5	0.818 9303	4124.2	12097	0.506 8548	5473.0	16481	0.219 8620	2373.8	7168
16.0	0.823 8479	4071.8		0.500 2680	5505.0		0.217 0052	2387.6	
16.5	0.828 7024	4019.1	11781	0.493 6430	5536.6	16677	0.214 1318	2401.4	7253
17.0	0.833 4935	3966.2		0.486 9804	5567.6		0.211 2420	2414.9	
17.5	0.838 2211	3913.1	11461	0.480 2808	5598.3	16869	0.208 3361	2428.2	7336
18.0	0.842 8847	3859.6		0.473 5447	5628.5		0.205 4144	2441.3	
18.5	0.847 4840	3805.9	11138	0.466 7725	5658.4	17055	0.202 4771	2454.2	7417
19.0	+0.852 0187	3751.9		−0.459 9647	5687.8		−0.199 5244	2467.0	
19.5	0.856 4885	3697.8	+10811	0.453 1219	5716.8	+17236	0.196 5565	2479.6	+7496
20.0	0.860 8932	3643.3		0.446 2446	5745.4		0.193 5735	2492.0	
20.5	0.865 2323	3588.6	10481	0.439 3332	5773.6	17411	0.190 5757	2504.2	7572
21.0	0.869 5057	3533.8		0.432 3882	5801.4		0.187 5634	2516.3	
21.5	0.873 7132	3478.6	10148	0.425 4101	5828.7	17581	0.184 5367	2528.2	7646
22.0	0.877 8543	3423.2		0.418 3995	5855.6		0.181 4958	2540.0	
22.5	0.881 9288	3367.5	9812	0.411 3568	5882.1	17746	0.178 4409	2551.5	7718
23.0	0.885 9362	3311.4		0.404 2827	5908.1		0.175 3723	2562.8	
23.5	0.889 8761	3255.1	9473	0.397 1775	5933.7	17905	0.172 2902	2573.9	7787
24.0	+0.893 7484	3198.7		−0.390 0419	5958.9		−0.169 1949	2584.9	
24.5	0.897 5531	3142.2	+ 9131	0.382 8763	5983.8	+18059	0.166 0865	2595.8	+7854
25.0	0.901 2897	3085.3		0.375 6810	6008.2		0.162 9653	2606.3	
25.5	0.904 9577	3028.1	8786	0.368 4568	6032.1	18208	0.159 8315	2616.6	7919
26.0	0.908 5568	2970.6		0.361 2041	6055.5		0.156 6854	2626.9	
26.5	0.912 0870	2913.0	8439	0.353 9237	6078.5	18351	0.153 5271	2637.0	7981
27.0	0.915 5478	2855.0		0.346 6159	6101.1		0.150 3567	2646.9	
27.5	0.918 9389	2796.8	8089	0.339 2812	6123.2	18488	0.147 1747	2656.4	8041
28.0	0.922 2600	2738.4		0.331 9204	6144.8		0.143 9815	2665.7	
28.5	0.925 5110	2679.9	7736	0.324 5340	6165.9	18620	0.140 7772	2674.9	8098

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Febr. 29.0	+0.928 6916	2621.1		−0.317 1225	6186.6		−0.137 5619	2683.9	
29.5	0.931 8014	2561.9	+7381	0.309 6864	6206.8	+18746	0.134 3359	2692.7	+8153
März 1.0	0.934 8401	2502.6		0.302 2265	6226.4		0.131 0996	2701.2	
1.5	0.937 8076	2443.1	7023	0.294 7433	6245.5	18867	0.127 8532	2709.5	8205
2.0	0.940 7035	2383.3		0.287 2375	6264.2		0.124 5969	2717.6	
2.5	0.943 5275	2323.4	6663	0.279 7095	6282.3	18982	0.121 3311	2725.5	8255
3.0	0.946 2797	2263.4		0.272 1601	6300.0		0.118 0559	2733.1	
3.5	0.948 9598	2203.2	6301	0.264 5898	6317.1	19091	0.114 7717	2740.4	8302
4.0	0.951 5675	2142.8		0.256 9993	6333.7		0.111 4789	2747.6	
4.5	0.954 1025	2082.3	5938	0.249 3892	6349.7	19194	0.108 1775	2754.6	8347
5.0	+0.956 5649	2021.6		−0.241 7602	6365.2		−0.104 8679	2761.3	
5.5	0.958 9544	1960.8	+5573	0.234 1129	6380.2	+19291	0.101 5504	2767.8	+8390
6.0	0.961 2709	1899.9		0.226 4480	6394.7		0.098 2253	2774.0	
6.5	0.963 5142	1838.9	5206	0.218 7659	6408.7	19382	0.094 8928	2780.0	8430
7.0	0.965 6842	1777.8		0.211 0674	6422.1		0.091 5533	2785.8	
7.5	0.967 7808	1716.6	4838	0.203 3531	6435.0	19468	0.088 2070	2791.3	8467
8.0	0.969 8040	1655.4		0.195 6237	6447.3		0.084 8542	2796.6	
8.5	0.971 7537	1594.1	4468	0.187 8797	6459.2	19548	0.081 4951	2801.8	8501
9.0	0.973 6297	1532.7		0.180 1218	6470.6		0.078 1299	2806.8	
9.5	0.975 4321	1471.2	4097	0.172 3505	6481.5	19621	0.074 7590	2811.4	8533
10.0	+0.977 1606	1409.6		−0.164 5665	6491.8		−0.071 3826	2815.9	
10.5	0.978 8151	1347.9	+3724	0.156 7704	6501.6	+19688	0.068 0010	2820.1	+8562
11.0	0.980 3956	1286.3		0.148 9629	6510.9		0.064 6144	2824.2	
11.5	0.981 9023	1224.8	3350	0.141 1444	6519.8	19750	0.061 2231	2828.0	8589
12.0	0.983 3350	1163.1		0.133 3156	6528.2		0.057 8273	2831.6	
12.5	0.984 6936	1101.3	2975	0.125 4770	6536.1	19806	0.054 4274	2835.0	8613
13.0	0.985 9780	1039.5		0.117 6293	6543.4		0.051 0235	2838.1	
13.5	0.987 1883	977.7	2600	0.109 7731	6550.2	19856	0.047 6160	2841.0	8635
14.0	0.988 3244	915.9		0.101 9091	6556.5		0.044 2051	2843.8	
14.5	0.989 3864	854.1	2224	0.094 0377	6562.5	19899	0.040 7909	2846.4	8654
15.0	+0.990 3742	792.2		−0.086 1595	6567.9		−0.037 3738	2848.7	
15.5	0.991 2877	730.3	+1847	0.078 2750	6572.7	+19937	0.033 9540	2850.9	+8670
16.0	0.992 1270	668.6		0.070 3849	6577.2		0.030 5318	2852.8	
16.5	0.992 8923	606.9	1470	0.062 4899	6581.1	19969	0.027 1075	2854.5	8684
17.0	0.993 5834	545.0		0.054 5904	6584.6		0.023 6812	2856.0	
17.5	0.994 2003	483.1	1092	0.046 6870	6587.7	19995	0.020 2531	2857.3	8696
18.0	0.994 7429	421.2		0.038 7802	6590.3		0.016 8235	2858.5	
18.5	0.995 2112	359.3	713	0.030 8706	6592.3	20015	0.013 3927	2859.5	8705
19.0	0.995 6053	297.6		0.022 9588	6594.0		0.009 9609	2860.2	
19.5	0.995 9255	236.0	335	0.015 0453	6595.1	20029	0.006 5284	2860.6	8711

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
März 19.0	+0.995 6053	297.6		−0.022 9588	6594.0		−0.009 9609	2860.2	
19.5	0.995 9255	236.0	+ 335	0.015 0453	6595.1	+20029	0.006 5284	2860.6	+8711
20.0	0.996 1716	174.2		−0.007 1307	6595.8		−0.003 0955	2860.9	
20.5	0.996 3435	112.3	− 43	+0.000 7845	6596.1	20037	+0.000 3378	2861.1	8714
21.0	0.996 4412	50.5		0.008 6997	6595.9		0.003 7712	2861.0	
21.5	0.996 4648	11.2	421	0.016 6144	6595.3	20039	0.007 2044	2860.8	8715
22.0	0.996 4144	72.9		0.024 5282	6594.3		0.010 6372	2860.4	
22.5	0.996 2899	134.5	799	0.032 4404	6592.6	20035	0.014 0694	2859.8	8713
23.0	0.996 0915	196.2		0.040 3503	6590.5		0.017 5006	2858.9	
23.5	0.995 8189	258.0	1177	0.048 2574	6588.0	20025	0.020 9307	2857.9	8709
24.0	+0.995 4722	319.8		+0.056 1614	6585.1		+0.024 3594	2856.6	
24.5	0.995 0514	381.5	−1555	0.064 0615	6581.7	+20010	0.027 7865	2855.2	+8702
25.0	0.994 5566	443.2		0.071 9573	6577.8		0.031 2117	2853.5	
25.5	0.993 9877	504.9	1933	0.079 8480	6573.4	19988	0.034 6348	2851.7	8693
26.0	0.993 3448	566.5		0.087 7332	6568.5		0.038 0555	2849.6	
26.5	0.992 6281	628.1	2310	0.095 6122	6563.1	19961	0.041 4736	2847.3	8681
27.0	0.991 8375	689.7		0.103 4845	6557.3		0.044 8888	2844.7	
27.5	0.990 9729	751.3	2686	0.111 3495	6551.0	19927	0.048 3008	2841.9	8666
28.0	0.990 0344	812.8		0.119 2066	6544.1		0.051 7094	2839.0	
28.5	0.989 0221	874.3	3061	0.127 0552	6536.7	19887	0.055 1144	2835.8	8649
29.0	+0.987 9361	935.6		+0.134 8946	6528.9		+0.058 5153	2832.4	
29.5	0.986 7766	996.9	−3436	0.142 7243	6520.5	+19842	0.061 9120	2828.7	+8629
30.0	0.985 5435	1058.2		0.150 5437	6511.7		0.065 3042	2824.9	
30.5	0.984 2369	1119.4	3810	0.158 3521	6502.2	19791	0.068 6917	2820.8	8607
31.0	0.982 8569	1180.5		0.166 1489	6492.4		0.072 0741	2816.5	
31.5	0.981 4037	1241.5	4182	0.173 9336	6482.0	19733	0.075 4512	2811.9	8582
April 1.0	0.979 8773	1302.4		0.181 7055	6471.1		0.078 8226	2807.1	
1.5	0.978 2779	1363.1	4553	0.189 4640	6459.7	19669	0.082 1883	2802.2	8554
2.0	0.976 6058	1423.7		0.197 2085	6447.7		0.085 5479	2797.0	
2.5	0.974 8611	1484.2	4923	0.204 9382	6435.1	19600	0.088 9010	2791.5	8524
3.0	+0.973 0438	1544.7		+0.212 6527	6422.2		+0.092 2475	2785.9	
3.5	0.971 1540	1604.9	−5291	0.220 3513	6408.7	+19525	0.095 5871	2780.0	+8491
4.0	0.969 1921	1664.9		0.228 0335	6394.8		0.098 9195	2774.0	
4.5	0.967 1584	1724.6	5658	0.235 6987	6380.4	19444	0.102 2445	2767.7	8456
5.0	0.965 0532	1784.2		0.243 3462	6365.4		0.105 5618	2761.1	
5.5	0.962 8765	1843.7	6023	0.250 9755	6350.0	19358	0.108 8711	2754.4	8419
6.0	0.960 6284	1903.1		0.258 5860	6334.1		0.112 1722	2747.4	
6.5	0.958 3093	1962.1	6386	0.266 1772	6317.8	19266	0.115 4649	2740.4	8379
7.0	0.955 9195	2020.9		0.273 7485	6300.9		0.118 7490	2733.1	
7.5	0.953 4592	2079.6	6748	0.281 2992	6283.6	19168	0.122 0242	2725.5	8336

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
April 8.0	+0.950 9286	2138.0		+0.288 8289	6265.8		+0.125 2902	2717.8	
8.5	0.948 3280	2196.3	− 7107	0.296 3370	6247.6	+19065	0.128 5468	2709.9	+8291
9.0	0.945 6576	2254.3		0.303 8229	6228.9		0.131 7938	2701.7	
9.5	0.942 9177	2312.0	7464	0.311 2862	6209.9	18956	0.135 0309	2693.4	8244
10.0	0.940 1086	2369.7		0.318 7264	6190.4		0.138 2579	2685.0	
10.5	0.937 2305	2427.0	7819	0.326 1429	6170.3	18841	0.141 4747	2676.3	8194
11.0	0.934 2839	2484.1		0.333 5350	6149.9		0.144 6809	2667.4	
11.5	0.931 2687	2541.1	8172	0.340 9024	6129.0	18721	0.147 8763	2658.4	8141
12.0	0.928 1853	2597.8		0.348 2444	6107.6		0.151 0608	2649.2	
12.5	0.925 0341	2654.2	8522	0.355 5606	6085.9	18595	0.154 2342	2639.8	8087
13.0	+0.921 8154	2710.2		+0.362 8505	6063.8		+0.157 3962	2630.1	
13.5	0.918 5297	2766.1	− 8870	0.370 1136	6041.3	+18464	0.160 5464	2620.3	+8030
14.0	0.915 1770	2821.8		0.377 3494	6018.3		0.163 6848	2610.4	
14.5	0.911 7574	2877.3	9215	0.384 5574	5994.9	18327	0.166 8112	2600.3	7970
15.0	0.908 2714	2932.4		0.391 7371	5971.2		0.169 9254	2590.0	
15.5	0.904 7196	2987.3	9557	0.398 8881	5947.1	18185	0.173 0272	2579.6	7908
16.0	0.901 1021	3042.0		0.406 0100	5922.6		0.176 1163	2568.9	
16.5	0.897 4189	3096.5	9896	0.413 1022	5897.6	18038	0.179 1925	2558.1	7844
17.0	0.893 6705	3150.7		0.420 1642	5872.3		0.182 2557	2547.2	
17.5	0.889 8573	3204.6	10233	0.427 1956	5846.6	17886	0.185 3057	2536.2	7778
18.0	+0.885 9796	3258.3		+0.434 1960	5820.6		+0.188 3424	2524.9	
18.5	0.882 0375	3311.8	−10567	0.441 1648	5794.1	+17728	0.191 3654	2513.5	+7710
19.0	0.878 0314	3365.0		0.448 1017	5767.4		0.194 3746	2501.9	
19.5	0.873 9617	3417.9	10898	0.455 0063	5740.2	17565	0.197 3698	2490.1	7639
20.0	0.869 8286	3470.6		0.461 8781	5712.7		0.200 3508	2478.1	
20.5	0.865 6324	3523.1	11226	0.468 7166	5684.7	17397	0.203 3173	2466.0	7566
21.0	0.861 3732	3575.5		0.475 5213	5656.4		0.206 2692	2453.8	
21.5	0.857 0512	3627.7	11550	0.482 2917	5627.6	17225	0.209 2063	2441.4	7491
22.0	0.852 6668	3679.6		0.489 0273	5598.4		0.212 1284	2428.8	
22.5	0.848 2203	3731.1	11871	0.495 7278	5568.9	17047	0.215 0353	2415.9	7414
23.0	+0.843 7123	3782.2		+0.502 3926	5539.0		+0.217 9266	2402.9	
23.5	0.839 1430	3833.2	−12188	0.509 0212	5508.7	+16864	0.220 8023	2389.8	+7335
24.0	0.834 5126	3884.1		0.515 6133	5478.1		0.223 6622	2376.5	
24.5	0.829 8212	3934.7	12502	0.522 1684	5447.0	16676	0.226 5059	2363.0	7253
25.0	0.825 0693	3985.0		0.528 6858	5415.4		0.229 3334	2349.4	
25.5	0.820 2573	4035.0	12812	0.535 1651	5383.5	16483	0.232 1444	2335.6	7169
26.0	0.815 3853	4084.8		0.541 6060	5351.2		0.234 9387	2321.5	
26.5	0.810 4539	4134.2	13119	0.548 0077	5318.4	16286	0.237 7160	2307.3	7083
27.0	0.805 4634	4183.3		0.554 3699	5285.3		0.240 4761	2292.9	
27.5	0.800 4141	4232.1	13423	0.560 6921	5251.7	16084	0.243 2188	2278.3	6995

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
April 27.0	+0.805 4634	4183.3		+0.554 3699	5285.3		+0.240 4761	2292.9	
27.5	0.800 4141	4232.1	−13423	0.560 6921	5251.7	+16084	0.243 2188	2278.3	+6995
28.0	0.795 3065	4280.5		0.566 9738	5217.7		0.245 9439	2263.5	
28.5	0.790 1409	4328.7	13722	0.573 2145	5183.4	15877	0.248 6511	2248.6	6905
29.0	0.784 9177	4376.6		0.579 4137	5148.6		0.251 3404	2233.5	
29.5	0.779 6372	4424.1	14017	0.585 5710	5113.5	15665	0.254 0115	2218.2	6813
30.0	0.774 3000	4471.2		0.591 6860	5078.0		0.256 6641	2202.8	
30.5	0.768 9064	4518.0	14308	0.597 7580	5042.0	15449	0.259 2981	2187.2	6719
Mai 1.0	0.763 4569	4564.5		0.603 7866	5005.6		0.261 9132	2171.4	
1.5	0.757 9518	4610.5	14595	0.609 7713	4968.9	15228	0.264 5093	2155.4	6623
2.0	+0.752 3918	4656.1		+0.615 7118	4931.9		+0.267 0861	2139.3	
2.5	0.746 7773	4701.3	−14878	0.621 6078	4894.6	+15003	0.269 6436	2123.0	+6525
3.0	0.741 1087	4746.3		0.627 4587	4856.9		0.272 1815	2106.6	
3.5	0.735 3864	4790.8	15156	0.633 2641	4818.7	14774	0.274 6995	2090.1	6425
4.0	0.729 6109	4835.0		0.639 0234	4780.1		0.277 1976	2073.4	
4.5	0.723 7825	4878.8	15430	0.644 7363	4741.3	14540	0.279 6756	2056.5	6324
5.0	0.717 9018	4922.1		0.650 4023	4702.1		0.282 1332	2039.4	
5.5	0.711 9696	4964.9	15699	0.656 0211	4662.7	14302	0.284 5702	2022.3	6221
6.0	0.705 9861	5007.5		0.661 5924	4622.9		0.286 9868	2005.0	
6.5	0.699 9518	5049.7	15964	0.667 1159	4582.8	14060	0.289 3824	1987.6	6115
7.0	+0.693 8671	5091.4		+0.672 5912	4542.4		+0.291 7571	1970.1	
7.5	0.687 7327	5132.6	−16224	0.678 0177	4501.7	+13815	0.294 1107	1952.4	+6008
8.0	0.681 5490	5173.5		0.683 3951	4460.6		0.296 4429	1934.6	
8.5	0.675 3164	5214.1	16480	0.688 7230	4419.3	13565	0.298 7536	1916.7	5899
9.0	0.669 0355	5254.1		0.694 0012	4377.6		0.301 0428	1898.7	
9.5	0.662 7067	5293.8	16731	0.699 2292	4335.7	13311	0.303 3104	1880.5	5789
10.0	0.656 3306	5333.0		0.704 4068	4293.6		0.305 5560	1862.2	
10.5	0.649 9077	5371.8	16977	0.709 5337	4251.1	13053	0.307 7797	1843.9	5677
11.0	0.643 4385	5410.3		0.714 6093	4208.3		0.309 9812	1825.2	
11.5	0.636 9233	5448.2	17218	0.719 6335	4165.3	12792	0.312 1602	1806.5	5563
12.0	+0.630 3630	5485.6		+0.724 6059	4122.1		+0.314 3168	1787.8	
12.5	0.623 7580	5522.7	−17454	0.729 5263	4078.7	+12527	0.316 4509	1769.1	+5448
13.0	0.617 1087	5559.4		0.734 3946	4035.0		0.318 5625	1750.2	
13.5	0.610 4155	5595.8	17685	0.739 2102	3991.0	12258	0.320 6513	1731.1	5331
14.0	0.603 6790	5631.6		0.743 9728	3946.8		0.322 7171	1711.9	
14.5	0.596 8999	5667.0	17911	0.748 6823	3902.3	11986	0.324 7598	1692.7	5213
15.0	0.590 0784	5702.2		0.753 3382	3857.5		0.326 7795	1673.4	
15.5	0.583 2149	5736.9	18132	0.757 9403	3812.6	11711	0.328 7759	1653.9	5093
16.0	0.576 3101	5771.1		0.762 4885	3767.6		0.330 7488	1634.4	
16.5	0.569 3644	5804.9	18348	0.766 9824	3722.2	11432	0.332 6983	1614.7	4972

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Mai 17.0	+0.562 3784	5838.4		+0.771 4218	3676.7		+0.334 6241	1595.0	
17.5	0.555 3525	5871.4	−18558	0.775 8064	3630.9	+11150	0.336 5262	1575.1	+4849
18.0	0.548 2872	5904.1		0.780 1359	3584.9		0.338 4044	1555.2	
18.5	0.541 1829	5936.4	18763	0.784 4101	3538.7	10865	0.340 2587	1535.2	4725
19.0	0.534 0400	5968.4		0.788 6287	3492.2		0.342 0889	1515.1	
19.5	0.526 8588	6000.0	18963	0.792 7913	3445.5	10577	0.343 8949	1494.9	4600
20.0	0.519 6401	6031.1		0.796 8977	3398.6		0.345 6766	1474.6	
20.5	0.512 3844	6061.8	19158	0.800 9478	3351.5	10285	0.347 4339	1454.2	4473
21.0	0.505 0921	6092.1		0.804 9413	3304.2		0.349 1665	1433.6	
21.5	0.497 7635	6122.1	19348	0.808 8778	3256.6	9990	0.350 8744	1412.9	4345
22.0	+0.490 3991	6151.7		+0.812 7570	3208.7		+0.352 5574	1392.1	
22.5	0.482 9995	6180.9	−19532	0.816 5786	3160.5	+ 9693	0.354 2154	1371.2	+4216
23.0	0.475 5651	6209.7		0.820 3421	3112.0		0.355 8483	1350.3	
23.5	0.468 0965	6237.9	19710	0.824 0474	3063.5	9393	0.357 4560	1329.2	4086
24.0	0.460 5944	6265.7		0.827 6944	3014.8		0.359 0383	1308.0	
24.5	0.453 0591	6293.1	19883	0.831 2827	2965.7	9091	0.360 5951	1286.7	3954
25.0	0.445 4912	6320.1		0.834 8120	2916.4		0.362 1263	1265.3	
25.5	0.437 8911	6346.6	20050	0.838 2820	2866.9	8786	0.363 6317	1243.8	3821
26.0	0.430 2595	6372.8		0.841 6924	2817.1		0.365 1113	1222.1	
26.5	0.422 5967	6398.4	20211	0.845 0429	2767.1	8478	0.366 5648	1200.4	3687
27.0	+0.414 9036	6423.4		+0.848 3333	2716.9		+0.367 9923	1178.6	
27.5	0.407 1806	6448.0	−20366	0.851 5633	2666.4	+ 8168	0.369 3936	1156.7	+3552
28.0	0.399 4284	6472.2		0.854 7327	2615.8		0.370 7684	1134.7	
28.5	0.391 6475	6495.9	20516	0.857 8412	2565.0	7856	0.372 1168	1112.6	3416
29.0	0.383 8385	6519.1		0.860 8886	2513.9		0.373 4386	1090.4	
29.5	0.376 0019	6541.8	20660	0.863 8746	2462.7	7541	0.374 7338	1068.3	3279
30.0	0.368 1384	6564.0		0.866 7992	2411.4		0.376 0024	1046.0	
30.5	0.360 2485	6585.7	20798	0.869 6621	2360.0	7224	0.377 2441	1023.6	3141
31.0	0.352 3329	6606.9		0.872 4631	2308.3		0.378 4589	1001.1	
31.5	0.344 3922	6627.6	20930	0.875 2019	2256.3	6905	0.379 6466	978.5	3002
Juni 1.0	+0.336 4269	6647.8		+0.877 8782	2204.1		+0.380 8072	955.9	
1.5	0.328 4377	6667.5	−21056	0.880 4918	2151.8	+ 6584	0.381 9407	933.3	+2863
2.0	0.320 4251	6686.7		0.883 0426	2099.5		0.383 0470	910.6	
2.5	0.312 3899	6705.4	21176	0.885 5305	2047.0	6261	0.384 1260	887.7	2722
3.0	0.304 3325	6723.6		0.887 9554	1994.5		0.385 1775	864.9	
3.5	0.296 2536	6741.2	21290	0.890 3172	1941.8	5936	0.386 2017	842.1	2581
4.0	0.288 1539	6758.3		0.892 6157	1888.9		0.387 1985	819.2	
4.5	0.280 0339	6774.8	21398	0.894 8506	1836.0	5610	0.388 1677	796.2	2439
5.0	0.271 8945	6790.9		0.897 0220	1783.0		0.389 1093	773.1	
5.5	0.263 7359	6806.6	21500	0.899 1296	1729.7	5282	0.390 0232	750.0	2297

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Juni 5.0	+0.271 8945	6790.9		+0.897 0220	1783.0		+0.389 1093	773.1	
5.5	0.263 7359	6806.6	−21500	0.899 1296	1729.7	+5282	0.390 0232	750.0	+2297
6.0	0.255 5588	6821.8		0.901 1732	1676.4		0.390 9093	726.8	
6.5	0.247 3639	6836.3	21596	0.903 1528	1623.0	4953	0.391 7676	703.7	2154
7.0	0.239 1519	6850.3		0.905 0682	1569.5		0.392 5981	680.5	
7.5	0.230 9234	6863.8	21686	0.906 9194	1515.9	4622	0.393 4008	657.3	2010
8.0	0.222 6789	6877.0		0.908 7064	1462.4		0.394 1757	634.1	
8.5	0.214 4189	6889.6	21769	0.910 4292	1408.9	4290	0.394 9228	610.9	1866
9.0	0.206 1441	6901.7		0.912 0876	1355.1		0.395 6419	587.6	
9.5	0.197 8551	6913.2	21846	0.913 6813	1301.2	3957	0.396 3330	564.3	1721
10.0	+0.189 5527	6924.2		+0.915 2104	1247.3		+0.396 9962	541.0	
10.5	0.181 2372	6934.8	−21917	0.916 6749	1193.5	+3623	0.397 6314	517.7	+1576
11.0	0.172 9093	6944.9		0.918 0747	1139.6		0.398 2386	494.3	
11.5	0.164 5696	6954.5	21982	0.919 4099	1085.7	3287	0.398 8177	470.9	1430
12.0	0.156 2188	6963.6		0.920 6804	1031.7		0.399 3688	447.5	
12.5	0.147 8572	6972.2	22041	0.921 8860	977.6	2951	0.399 8918	424.1	1284
13.0	0.139 4856	6980.4		0.923 0267	923.5		0.400 3867	400.7	
13.5	0.131 1044	6988.2	22094	0.924 1025	869.5	2614	0.400 8535	377.3	1137
14.0	0.122 7142	6995.4		0.925 1134	815.4		0.401 2923	353.9	
14.5	0.114 3156	7002.2	22140	0.926 0595	761.4	2276	0.401 7029	330.5	990
15.0	+0.105 9091	7008.6		+0.926 9407	707.3		+0.402 0854	307.0	
15.5	0.097 4951	7014.6	−22180	0.927 7569	653.0	+1938	0.402 4398	283.5	+ 843
16.0	0.089 0743	7020.1		0.928 5080	598.8		0.402 7659	260.0	
16.5	0.080 6471	7025.1	22214	0.929 1940	544.5	1599	0.403 0638	236.5	696
17.0	0.072 2143	7029.6		0.929 8149	490.3		0.403 3335	213.0	
17.5	0.063 7763	7033.7	22242	0.930 3706	435.9	1260	0.403 5749	189.4	548
18.0	0.055 3335	7037.5		0.930 8611	381.6		0.403 7880	165.8	
18.5	0.046 8865	7040.7	22263	0.931 2865	327.2	920	0.403 9728	142.3	400
19.0	0.038 4360	7043.4		0.931 6464	272.6		0.404 1294	118.6	
19.5	0.029 9824	7045.8	22278	0.931 9408	218.1	580	0.404 2575	95.0	252
20.0	+0.021 5263	7047.6		+0.932 1699	163.7		+0.404 3573	71.3	
20.5	0.013 0683	7049.0	−22287	0.932 3336	109.1	+ 240	0.404 4286	47.5	+ 105
21.0	+0.004 6090	7049.8		0.932 4317	54.4		0.404 4713	23.7	
21.5	−0.003 8510	7050.2	22290	0.932 4641	0.3	− 100	0.404 4855	0.0	− 43
22.0	0.012 3112	7050.1		0.932 4309	55.0		0.404 4714	23.6	
22.5	0.020 7710	7049.5	22286	0.932 3320	109.8	441	0.404 4288	47.4	191
23.0	0.029 2297	7048.3		0.932 1675	164.5		0.404 3576	71.3	
23.5	0.037 6868	7046.7	22276	0.931 9372	219.3	781	0.404 2578	95.1	339
24.0	0.046 1416	7044.5		0.931 6413	274.0		0.404 1295	118.9	
24.5	0.054 5935	7041.8	22260	0.931 2796	328.8	1121	0.403 9726	142.7	487

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Juni 25.0	—0.063 0418	7038.7		+0.930 8521	383.7		+0.403 7871	166.5	
25.5	0.071 4861	7035.0	—22238	0.930 3588	438.5	—1460	0.403 5730	190.3	— 635
26.0	0.079 9256	7030.8		0.929 7997	493.4		0.403 3303	214.1	
26.5	0.088 3597	7026.0	22209	0.929 1748	548.1	1799	0.403 0591	237.9	783
27.0	0.096 7877	7020.7		0.928 4843	602.7		0.402 7594	261.6	
27.5	0.105 2091	7014.9	22174	0.927 7283	657.3	2138	0.402 4312	285.3	930
28.0	0.113 6233	7008.6		0.926 9067	712.0		0.402 0746	309.0	
28.5	0.122 0296	7001.8	22133	0.926 0195	766.7	2476	0.401 6895	332.8	1077
29.0	0.130 4274	6994.4		0.925 0667	821.3		0.401 2760	356.5	
29.5	0.138 8160	6986.5	22086	0.924 0484	875.9	2814	0.400 8340	380.1	1224
30.0	—0.147 1948	6978.1		+0.922 9647	930.2		+0.400 3637	403.8	
30.5	0.155 5632	6969.1	—22032	0.921 8159	984.5	—3151	0.399 8650	427.4	—1370
Juli 1.0	0.163 9205	6959.7		0.920 6019	1038.8		0.399 3380	451.0	
1.5	0.172 2662	6949.7	21972	0.919 3227	1093.1	3487	0.398 7827	474.5	1516
2.0	0.180 5996	6939.2		0.917 9784	1147.3		0.398 1992	498.0	
2.5	0.188 9201	6928.2	21906	0.916 5693	1201.2	3822	0.397 5876	521.3	1662
3.0	0.197 2270	6916.6		0.915 0956	1255.1		0.396 9480	544.7	
3.5	0.205 5198	6904.6	21834	0.913 5571	1309.0	4155	0.396 2803	568.1	1807
4.0	0.213 7978	6892.0		0.911 9541	1362.7		0.395 5846	591.4	
4.5	0.222 0605	6879.0	21756	0.910 2867	1416.3	4488	0.394 8610	614.5	1952
5.0	—0.230 3072	6865.5		+0.908 5551	1469.8		+0.394 1097	637.7	
5.5	0.238 5374	6851.5	—21671	0.906 7593	1523.1	—4819	0.393 3306	660.9	—2096
6.0	0.246 7505	6836.9		0.904 8997	1576.2		0.392 5237	684.0	
6.5	0.254 9458	6821.8	21580	0.902 9764	1629.3	5149	0.391 6891	707.0	2239
7.0	0.263 1227	6806.3		0.900 9894	1682.2		0.390 8270	729.9	
7.5	0.271 2807	6790.3	21483	0.898 9391	1734.9	5477	0.389 9374	752.7	2382
8.0	0.279 4192	6773.8		0.896 8256	1787.6		0.389 0205	775.5	
8.5	0.287 5376	6756.9	21380	0.894 6489	1840.2	5804	0.388 0763	798.2	2524
9.0	0.295 6355	6739.5		0.892 4093	1892.5		0.387 1048	820.8	
9.5	0.303 7121	6721.5	21271	0.890 1071	1944.5	6129	0.386 1062	843.3	2666
10.0	—0.311 7669	6703.2		+0.887 7426	1996.4		+0.385 0806	865.9	
10.5	0.319 7995	6684.5	—21156	0.885 3158	2048.2	—6452	0.384 0281	888.4	—2806
11.0	0.327 8094	6665.3		0.882 8270	2099.9		0.382 9487	910.7	
11.5	0.335 7959	6645.6	21035	0.880 2762	2151.4	6774	0.381 8424	932.9	2946
12.0	0.343 7586	6625.4		0.877 6638	2202.5		0.380 7095	955.1	
12.5	0.351 6968	6604.9	20908	0.874 9902	2253.6	7094	0.379 5501	977.3	3085
13.0	0.359 6102	6584.0		0.872 2553	2304.6		0.378 3641	999.4	
13.5	0.367 4983	6562.7	20775	0.869 4593	2355.4	7412	0.377 1515	1021.4	3223
14.0	0.375 3606	6541.0		0.866 6025	2406.0		0.375 9126	1043.3	
14.5	0.383 1965	6518.8	20637	0.863 6851	2456.4	7728	0.374 6475	1065.2	3360

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Juli 14.0	−0.375 3606	6541.0		+0.866 6025	2406.0		+0.375 9126	1043.3	
14.5	0.383 1965	6518.8	−20637	0.863 6851	2456.4	− 7728	0.374 6475	1065.2	−3360
15.0	0.391 0056	6496.2		0.860 7072	2506.7		0.373 3562	1087.0	
15.5	0.398 7873	6473.2	20493	0.857 6690	2556.8	8041	0.372 0387	1108.8	3497
16.0	0.406 5411	6449.8		0.854 5708	2606.8		0.370 6951	1130.5	
16.5	0.414 2666	6426.0	20343	0.851 4128	2656.6	8352	0.369 3255	1152.1	3633
17.0	0.421 9633	6401.8		0.848 1951	2706.3		0.367 9300	1173.7	
17.5	0.429 6307	6377.1	20187	0.844 9177	2755.9	8661	0.366 5087	1195.1	3767
18.0	0.437 2682	6352.0		0.841 5809	2805.3		0.365 0617	1216.5	
18.5	0.444 8753	6326.4	20026	0.838 1850	2854.5	8967	0.363 5891	1237.9	3900
19.0	−0.452 4514	6300.4		+0.834 7302	2903.6		+0.362 0907	1259.3	
19.5	0.459 9961	6274.0	−19859	0.831 2165	2952.5	− 9271	0.360 5667	1280.6	−4032
20.0	0.467 5088	6247.1		0.827 6442	3001.2		0.359 0172	1301.8	
20.5	0.474 9890	6219.7	19686	0.824 0135	3049.8	9572	0.357 4424	1322.9	4163
21.0	0.482 4360	6191.9		0.820 3247	3098.2		0.355 8423	1343.9	
21.5	0.489 8494	6163.7	19508	0.816 5779	3146.4	9871	0.354 2171	1364.9	4293
22.0	0.497 2286	6135.0		0.812 7733	3194.6		0.352 5667	1385.8	
22.5	0.504 5731	6105.8	19325	0.808 9110	3242.5	10167	0.350 8913	1406.6	4422
23.0	0.511 8823	6076.1		0.804 9914	3290.2		0.349 1910	1427.3	
23.5	0.519 1555	6045.9	19136	0.801 0147	3337.6	10460	0.347 4659	1447.9	4549
24.0	−0.526 3923	6015.4		+0.796 9812	3384.8		+0.345 7162	1468.4	
24.5	0.533 5923	5984.4	−18942	0.792 8912	3431.8	−10750	0.343 9419	1488.8	−4675
25.0	0.540 7547	5952.9		0.788 7450	3478.5		0.342 1431	1509.1	
25.5	0.547 8790	5920.9	18742	0.784 5428	3525.1	11037	0.340 3200	1529.4	4800
26.0	0.554 9647	5888.5		0.780 2848	3571.5		0.338 4727	1549.5	
26.5	0.562 0112	5855.6	18537	0.775 9714	3617.6	11321	0.336 6013	1569.4	4924
27.0	0.569 0179	5822.3		0.771 6028	3663.4		0.334 7061	1589.3	
27.5	0.575 9845	5788.6	18326	0.767 1794	3708.9	11602	0.332 7871	1609.1	5046
28.0	0.582 9104	5754.4		0.762 7015	3754.2		0.330 8443	1628.8	
28.5	0.589 7949	5719.7	18110	0.758 1695	3799.3	11880	0.328 8780	1648.3	5167
29.0	−0.596 6376	5684.7		+0.753 5835	3844.1		+0.326 8884	1667.7	
29.5	0.603 4380	5649.2	−17889	0.748 9438	3888.6	−12154	0.324 8755	1687.1	−5286
30.0	0.610 1954	5613.2		0.744 2510	3932.8		0.322 8395	1706.3	
30.5	0.616 9094	5576.8	17663	0.739 5053	3976.7	12425	0.320 7805	1725.4	5404
31.0	0.623 5795	5540.0		0.734 7070	4020.4		0.318 6987	1744.2	
31.5	0.630 2053	5502.8	17432	0.729 8564	4063.8	12692	0.316 5944	1762.9	5520
Aug. 1.0	0.636 7861	5465.2		0.724 9541	4106.8		0.314 4676	1781.5	
1.5	0.643 3215	5427.1	17196	0.720 0003	4149.5	12955	0.312 3185	1800.1	5635
2.0	0.649 8110	5388.7		0.714 9954	4191.9		0.310 1473	1818.5	
2.5	0.656 2542	5349.9	16955	0.709 9398	4234.0	13215	0.307 9541	1836.7	5748

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
Aug. 3.0	−0.662 6505	5310.5		+0.704 8340	4275.7		+0.305 7392	1854.8	
3.5	0.668 9992	5270.8	−16709	0.699 6783	4317.2	−13471	0.303 5027	1872.8	−5859
4.0	0.675 3003	5230.9		0.694 4730	4358.4		0.301 2446	1890.7	
4.5	0.681 5532	5190.5	16459	0.689 2184	4399.2	13723	0.298 9651	1908.4	5968
5.0	0.687 7574	5149.7		0.683 9150	4439.7		0.296 6645	1925.9	
5.5	0.693 9123	5108.5	16204	0.678 5633	4479.8	13972	0.294 3431	1943.1	6076
6.0	0.700 0177	5067.1		0.673 1637	4519.5		0.292 0010	1960.3	
6.5	0.706 0732	5025.3	15944	0.667 7166	4558.9	14216	0.289 6384	1977.4	6182
7.0	0.712 0783	4983.1		0.662 2224	4598.0		0.287 2553	1994.4	
7.5	0.718 0326	4940.6	15680	0.656 6815	4636.8	14456	0.284 8519	2011.2	6287
8.0	−0.723 9357	4897.8		+0.651 0943	4675.1		+0.282 4285	2027.7	
8.5	0.729 7873	4854.7	−15412	0.645 4613	4713.1	−14692	0.279 9854	2044.2	−6390
9.0	0.735 5869	4811.3		0.639 7830	4750.8		0.277 5225	2060.6	
9.5	0.741 3342	4767.5	15139	0.634 0595	4788.3	14924	0.275 0400	2076.8	6491
10.0	0.747 0288	4723.4		0.628 2913	4825.4		0.272 5382	2092.8	
10.5	0.752 6703	4679.1	14862	0.622 4788	4862.0	15152	0.270 0173	2108.7	6590
11.0	0.758 2585	4634.5		0.616 6225	4898.4		0.267 4774	2124.5	
11.5	0.763 7929	4589.5	14581	0.610 7228	4934.4	15375	0.264 9186	2140.2	6687
12.0	0.769 2732	4544.2		0.604 7800	4970.2		0.262 3411	2155.7	
12.5	0.774 6989	4498.6	14295	0.598 7945	5005.6	15594	0.259 7451	2171.0	6782
13.0	−0.780 0697	4452.8		+0.592 7667	5040.7		+0.257 1307	2186.2	
13.5	0.785 3854	4406.7	−14005	0.586 6970	5075.4	−15809	0.254 4982	2201.3	−6875
14.0	0.790 6457	4360.3		0.580 5858	5109.9		0.251 8476	2216.3	
14.5	0.795 8501	4313.6	13712	0.574 4334	5144.0	16019	0.249 1791	2231.1	6967
15.0	0.800 9983	4266.6		0.568 2402	5177.9		0.246 4930	2245.8	
15.5	0.806 0899	4219.3	13415	0.562 0065	5211.5	16225	0.243 7892	2260.4	7057
16.0	0.811 1244	4171.5		0.555 7328	5244.6		0.241 0680	2274.8	
16.5	0.816 1014	4123.5	13114	0.549 4196	5277.3	16426	0.238 3297	2289.1	7144
17.0	0.821 0206	4075.2		0.543 0673	5309.8		0.235 5743	2303.2	
17.5	0.825 8818	4026.6	12809	0.536 6761	5342.1	16622	0.232 8020	2317.3	7229
18.0	−0.830 6844	3977.6		+0.530 2464	5374.1		+0.230 0129	2331.2	
18.5	0.835 4280	3928.3	−12501	0.523 7785	5405.7	−16814	0.227 2072	2344.9	−7313
19.0	0.840 1123	3878.7		0.517 2730	5436.8		0.224 3852	2358.4	
19.5	0.844 7368	3828.8	12189	0.510 7304	5467.6	17001	0.221 5471	2371.7	7394
20.0	0.849 3012	3778.6		0.504 1510	5498.0		0.218 6931	2385.1	
20.5	0.853 8053	3728.1	11873	0.497 5353	5528.1	17183	0.215 8232	2398.1	7473
21.0	0.858 2485	3677.2		0.490 8838	5557.7		0.212 9377	2411.0	
21.5	0.862 6305	3626.1	11554	0.484 1969	5587.1	17360	0.210 0369	2423.7	7550
22.0	0.866 9509	3574.6		0.477 4750	5616.1		0.207 1208	2436.3	
22.5	0.871 2093	3522.7	11232	0.470 7185	5644.6	17532	0.204 1897	2448.7	7625

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Aug. 22.0	−0.866 9509	3574.6		+0.477 4750	5616.1		+0.207 1208	2436.3	
22.5	0.871 2093	3522.7	−11232	0.470 7185	5644.6	−17532	0.204 1897	2448.7	−7625
23.0	0.875 4052	3470.5		0.463 9280	5672.8		0.201 2439	2461.0	
23.5	0.879 5384	3418.1	10906	0.457 1039	5700.5	17699	0.198 2834	2473.1	7698
24.0	0.883 6086	3365.5		0.450 2469	5727.8		0.195 3086	2484.9	
24.5	0.887 6154	3312.5	10577	0.443 3574	5754.8	17861	0.192 3197	2496.6	7768
25.0	0.891 5584	3259.2		0.436 4356	5781.5		0.189 3168	2508.2	
25.5	0.895 4374	3205.8	10245	0.429 4821	5807.6	18018	0.186 3002	2519.5	7836
26.0	0.899 2521	3152.0		0.422 4976	5833.2		0.183 2702	2530.6	
26.5	0.903 0020	3097.9	9910	0.415 4826	5858.4	18170	0.180 2269	2541.5	7902
27.0	−0.906 6869	3043.5		+0.408 4376	5883.2		+0.177 1706	2552.3	
27.5	0.910 3063	2988.9	− 9572	0.401 3630	5907.6	−18317	0.174 1016	2562.8	−7966
28.0	0.913 8601	2934.1		0.394 2594	5931.6		0.171 0200	2573.2	
28.5	0.917 3480	2879.0	9232	0.387 1273	5955.1	18458	0.167 9260	2583.5	8027
29.0	0.920 7696	2823.6		0.379 9673	5978.2		0.164 8198	2593.5	
29.5	0.924 1245	2767.9	8889	0.372 7798	6000.9	18594	0.161 7018	2603.2	8086
30.0	0.927 4125	2712.1		0.365 5654	6023.0		0.158 5722	2612.8	
30.5	0.930 6335	2656.2	8543	0.358 3247	6044.7	18724	0.155 4312	2622.2	8143
31.0	0.933 7873	2600.0		0.351 0582	6066.0		0.152 2790	2631.4	
31.5	0.936 8735	2543.6	8195	0.343 7664	6086.8	18849	0.149 1159	2640.4	8198
Sept. 1.0	−0.939 8918	2486.8		+0.336 4501	6107.0		+0.145 9422	2649.1	
1.5	0.942 8418	2429.9	− 7845	0.329 1097	6126.9	−18969	0.142 7581	2657.7	−8250
2.0	0.945 7235	2372.9		0.321 7457	6146.4		0.139 5638	2666.1	
2.5	0.948 5367	2315.8	7492	0.314 3586	6165.3	19083	0.136 3596	2674.2	8300
3.0	0.951 2813	2258.5		0.306 9492	6183.7		0.133 1457	2682.2	
3.5	0.953 9571	2201.1	7137	0.299 5179	6201.7	19192	0.129 9223	2690.0	8347
4.0	0.956 5638	2143.4		0.292 0653	6219.2		0.126 6897	2697.6	
4.5	0.959 1012	2085.6	6780	0.284 5919	6236.3	19296	0.123 4481	2705.0	8392
5.0	0.961 5691	2027.6		0.277 0984	6252.9		0.120 1978	2712.1	
5.5	0.963 9674	1969.6	6421	0.269 5852	6269.1	19393	0.116 9391	2719.1	8434
6.0	−0.966 2960	1911.4		+0.262 0529	6284.8		+0.113 6721	2725.9	
6.5	0.968 5547	1853.1	− 6060	0.254 5020	6300.0	−19485	0.110 3971	2732.4	− 8474
7.0	0.970 7435	1794.8		0.246 9332	6314.7		0.107 1143	2738.9	
7.5	0.972 8621	1736.3	5698	0.239 3469	6329.1	19571	0.103 8239	2745.1	8511
8.0	0.974 9105	1677.7		0.231 7436	6343.0		0.100 5261	2751.2	
8.5	0.976 8886	1619.1	5334	0.224 1238	6356.5	19652	0.097 2212	2757.0	8546
9.0	0.978 7962	1560.2		0.216 4882	6369.5		0.093 9093	2762.7	
9.5	0.980 6330	1501.2	4969	0.208 8372	6382.1	19727	0.090 5908	2768.1	8579
10.0	0.982 3990	1442.2		0.201 1714	6394.2		0.087 2659	2773.4	
10.5	0.984 0942	1383.2	4602	0.193 4912	6406.0	19796	0.083 9348	2778.5	8609

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Sept. 11.0	−0.985 7186	1324.0		+0.185 7972	6417.4		+0.080 5975	2783.5	
11.5	0.987 2718	1264.6	−4234	0.178 0897	6428.3	−19860	0.077 2544	2788.2	−8637
12.0	0.988 7537	1205.2		0.170 3694	6438.8		0.073 9058	2792.8	
12.5	0.990 1643	1145.7	3865	0.162 6368	6448.8	19917	0.070 5518	2797.2	8662
13.0	0.991 5033	1086.0		0.154 8925	6458.4		0.067 1925	2801.5	
13.5	0.992 7705	1026.1	3494	0.147 1367	6467.7	19969	0.063 8282	2805.5	8685
14.0	0.993 9660	966.2		0.139 3701	6476.5		0.060 4593	2809.3	
14.5	0.995 0894	906.2	3122	0.131 5932	6484.9	20015	0.057 0859	2812.9	8705
15.0	0.996 1408	846.1		0.123 8065	6492.8		0.053 7083	2816.4	
15.5	0.997 1200	785.9	2749	0.116 0107	6500.3	20056	0.050 3266	2819.7	8722
16.0	−0.998 0269	725.6		+0.108 2061	6507.4		+0.046 9411	2822.8	
16.5	0.998 8613	665.1	−2376	0.100 3932	6514.0	−20090	0.043 5519	2825.8	−8737
17.0	0.999 6230	604.4		0.092 5728	6520.0		0.040 1593	2828.5	
17.5	1.000 3119	543.8	2002	0.084 7453	6525.7	20119	0.036 7637	2831.0	8750
18.0	1.000 9280	483.1		0.076 9112	6531.0		0.033 3652	2833.2	
18.5	1.001 4712	422.3	1627	0.069 0711	6535.7	20142	0.029 9641	2835.3	8760
19.0	1.001 9414	361.3		0.061 2257	6539.9		0.026 5606	2837.1	
19.5	1.002 3383	300.2	1252	0.053 3755	6543.7	20159	0.023 1551	2838.7	8768
20.0	1.002 6618	239.0		0.045 5211	6546.9		0.019 7478	2840.1	
20.5	1.002 9119	177.8	876	0.037 6631	6549.7	20170	0.016 3389	2841.4	8773
21.0	−1.003 0886	116.6		+0.029 8020	6552.1		+0.012 9286	2842.4	
21.5	1.003 1917	55.2	− 500	0.021 9383	6553.9	−20176	0.009 5172	2843.2	−8775
22.0	1.003 2211	6.1		0.014 0728	6555.2		0.006 1050	2843.8	
22.5	1.003 1770	67.5	− 124	+0.006 2060	6556.0	20175	+0.002 6922	2844.2	8774
23.0	1.003 0591	129.0		−0.001 6614	6556.4		−0.000 7210	2844.3	
23.5	1.002 8673	190.4	+ 252	0.009 5290	6556.4	20169	0.004 1340	2844.2	8771
24.0	1.002 6018	252.0		0.017 3962	6555.7		0.007 5469	2843.9	
24.5	1.002 2624	313.6	628	0.025 2624	6554.5	20157	0.010 9593	2843.4	8765
25.0	1.001 8491	375.2		0.033 1269	6552.8		0.014 3709	2842.7	
25.5	1.001 3618	436.9	1004	0.040 9890	6550.5	20138	0.017 7816	2841.8	8757
26.0	−1.000 8005	498.5		−0.048 8481	6547.9		−0.021 1910	2840.6	
26.5	1.000 1653	560.1	+1380	0.056 7037	6544.7	−20114	0.024 5988	2839.1	−8746
27.0	0.999 4562	621.7		0.064 5552	6541.0		0.028 0047	2837.4	
27.5	0.998 6732	683.3	1755	0.072 4018	6536.8	20083	0.031 4085	2835.5	8733
28.0	0.997 8163	744.8		0.080 2431	6532.1		0.034 8099	2833.4	
28.5	0.996 8856	806.3	2130	0.088 0785	6526.8	20046	0.038 2087	2831.1	8718
29.0	0.995 8811	867.8		0.095 9072	6521.0		0.041 6046	2828.6	
29.5	0.994 8028	929.2	2504	0.103 7287	6514.7	20004	0.044 9972	2825.8	8700
30.0	0.993 6510	990.5		0.111 5423	6507.8		0.048 3864	2822.8	
30.5	0.992 4256	1051.8	2878	0.119 3473	6500.4	19956	0.051 7719	2819.7	8680

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
Sept. 30.0	—0.993 6510	990.5		—0.111 5423	6507.8		—0.048 3864	2822.8	
30.5	0.992 4256	1051.8	+2878	0.119 3473	6500.4	—19956	0.051 7719	2819.7	—8680
Okt. 1.0	0.991 1267	1113.0		0.127 1431	6492.6		0.055 1535	2816.3	
1.5	0.989 7544	1174.1	3250	0.134 9294	6484.4	19902	0.058 5308	2812.5	8656
2.0	0.988 3089	1235.1		0.142 7054	6475.5		0.061 9035	2808.6	
2.5	0.986 7902	1296.0	3621	0.150 4704	6466.0	19842	0.065 2714	2804.6	8629
3.0	0.985 1985	1356.8		0.158 2237	6456.1		0.068 6344	2800.3	
3.5	0.983 5340	1417.4	3991	0.165 9650	6445.9	19776	0.071 9921	2795.8	8600
4.0	0.981 7968	1477.9		0.173 6938	6435.2		0.075 3443	2791.2	
4.5	0.979 9870	1538.3	4360	0.181 4092	6423.9	19705	0.078 6908	2786.3	8569
5.0	—0.978 1049	1598.6		—0.189 1110	6412.3		—0.082 0313	2781.2	
5.5	0.976 1504	1658.8	+4728	0.196 7984	6399.9	—19627	0.085 3655	2775.8	—8535
6.0	0.974 1238	1718.9		0.204 4707	6387.2		0.088 6932	2770.4	
6.5	0.972 0252	1778.7	5094	0.212 1276	6374.2	19544	0.092 0143	2764.8	8499
7.0	0.969 8549	1838.4		0.219 7685	6360.6		0.095 3285	2758.8	
7.5	0.967 6131	1897.9	5459	0.227 3928	6346.6	19454	0.098 6354	2752.7	8461
8.0	0.965 3000	1957.4		0.235 0001	6332.2		0.101 9350	2746.5	
8.5	0.962 9155	2016.7	5822	0.242 5898	6317.3	19359	0.105 2270	2740.1	8420
9.0	0.960 4599	2076.0		0.250 1613	6301.9		0.108 5111	2733.4	
9.5	0.957 9331	2135.2	6183	0.257 7142	6286.1	19259	0.111 7871	2726.6	8376
10.0	—0.955 3355	2194.1		—0.265 2478	6269.9		—0.115 0549	2719.7	
10.5	0.952 6674	2252.8	+6543	0.272 7617	6253.2	—19152	0.118 3142	2712.4	—8329
11.0	0.949 9289	2311.5		0.280 2554	6236.2		0.121 5647	2705.0	
11.5	0.947 1199	2370.1	6901	0.287 7284	6218.7	19040	0.124 8063	2697.5	8280
12.0	0.944 2407	2428.4		0.295 1801	6200.7		0.128 0387	2689.8	
12.5	0.941 2917	2486.5	7257	0.302 6100	6182.3	18922	0.131 2617	2681.9	8228
13.0	0.938 2730	2544.7		0.310 0176	6163.5		0.134 4751	2673.8	
13.5	0.935 1844	2602.8	7610	0.317 4023	6144.3	18799	0.137 6786	2665.4	8175
14.0	0.932 0262	2660.8		0.324 7637	6124.6		0.140 8719	2656.8	
14.5	0.928 7985	2718.6	7961	0.332 1011	6104.4	18671	0.144 0549	2648.1	8120
15.0	—0.925 5017	2776.1		—0.339 4140	6083.7		—0.147 2273	2639.1	
15.5	0.922 1360	2833.5	+8310	0.346 7019	6062.6	—18537	0.150 3888	2630.0	—8062
16.0	0.918 7014	2890.9		0.353 9642	6041.1		0.153 5393	2620.7	
16.5	0.915 1980	2948.1	8657	0.361 2004	6019.1	18397	0.156 6785	2611.2	8001
17.0	0.911 6261	3005.1		0.368 4099	5996.7		0.159 8062	2601.5	
17.5	0.907 9859	3061.9	9001	0.375 5922	5973.7	18252	0.162 9220	2591.5	7938
18.0	0.904 2777	3118.4		0.382 7466	5950.2		0.166 0258	2581.4	
18.5	0.900 5018	3174.8	9342	0.389 8726	5926.4	18101	0.169 1173	2571.0	7872
19.0	0.896 6583	3231.1		0.396 9698	5902.2		0.172 1962	2560.4	
19.5	0.892 7473	3287.2	9680	0.404 0377	5877.5	17944	0.175 2623	2549.7	7804

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Okt. 20.0	—0.888 7691	3343.1		—0.411 0755	5852.2		—0.178 3154	2538.8	
20.5	0.884 7240	3398.7	+10016	0.418 0827	5826.4	—17782	0.181 3553	2527.6	—7734
21.0	0.880 6123	3454.2		0.425 0587	5800.2		0.184 3816	2516.2	
21.5	0.876 4341	3509.4	10349	0.432 0030	5773.5	17615	0.187 3942	2504.7	7661
22.0	0.872 1897	3564.5		0.438 9150	5746.4		0.190 3928	2492.9	
22.5	0.867 8793	3619.3	10678	0.445 7942	5718.8	17443	0.193 3771	2480.9	7586
23.0	0.863 5034	3673.8		0.452 6399	5690.7		0.196 3469	2468.7	
23.5	0.859 0622	3728.1	11004	0.459 4517	5662.2	17265	0.199 3018	2456.2	7509
24.0	0.854 5561	3782.1		0.466 2290	5633.2		0.202 2417	2443.6	
24.5	0.849 9852	3836.0	11327	0.472 9712	5603.8	17082	0.205 1664	2430.9	7430
25.0	—0.845 3499	3889.5		—0.479 6779	5573.9		—0.208 0757	2417.9	
25.5	0.840 6505	3942.8	+11647	0.486 3484	5543.5	—16894	0.210 9692	2404.6	—7348
26.0	0.835 8873	3995.8		0.492 9821	5512.6		0.213 8467	2391.2	
26.5	0.831 0607	4048.5	11963	0.499 5784	5481.2	16701	0.216 7079	2377.5	7264
27.0	0.826 1710	4100.9		0.506 1367	5449.3		0.219 5527	2363.7	
27.5	0.821 2188	4152.9	12275	0.512 6566	5417.1	16503	0.222 3808	2349.7	7177
28.0	0.816 2043	4204.6		0.519 1375	5384.3		0.225 1919	2335.4	
28.5	0.811 1279	4255.9	12584	0.525 5788	5351.1	16300	0.227 9858	2321.0	7088
29.0	0.805 9901	4307.0		0.531 9801	5317.6		0.230 7623	2306.4	
29.5	0.800 7912	4357.8	12889	0.538 3410	5283.7	16092	0.233 5212	2291.7	6998
30.0	—0.795 5315	4408.3		—0.544 6608	5249.2		—0.236 2623	2276.7	
30.5	0.790 2116	4458.2	+13190	0.550 9390	5214.3	—15879	0.238 9853	2261.6	—6906
31.0	0.784 8321	4507.7		0.557 1750	5179.0		0.241 6901	2246.3	
31.5	0.779 3933	4556.9	13487	0.563 3685	5143.4	15661	0.244 3764	2230.8	6811
Nov. 1.0	0.773 8956	4605.9		0.569 5189	5107.3		0.247 0439	2215.1	
1.5	0.768 3393	4654.4	13779	0.575 6258	5070.8	15438	0.249 6925	2199.3	6714
2.0	0.762 7251	4702.5		0.581 6887	5034.0		0.252 3221	2183.4	
2.5	0.757 0532	4750.4	14067	0.587 7072	4996.8	15211	0.254 9325	2167.2	6615
3.0	0.751 3242	4797.9		0.593 6808	4959.2		0.257 5234	2150.9	
3.5	0.745 5385	4844.9	14351	0.599 6091	4921.3	14979	0.260 0946	2134.5	6515
4.0	—0.739 6967	4891.4		—0.605 4917	4883.0		—0.262 6461	2118.0	
4.5	0.733 7993	4937.8	+14631	0.611 3282	4844.4	—14743	0.265 1776	2101.2	—6412
5.0	0.727 8464	4983.8		0.617 1180	4815.3		0.267 6889	2084.3	
5.5	0.721 8384	5029.3	14906	0.622 8608	4766.0	14502	0.270 1798	2067.2	6307
6.0	0.715 7760	5074.4		0.628 5563	4726.4		0.272 6501	2050.1	
6.5	0.709 6599	5119.1	15177	0.634 2040	4686.4	14257	0.275 0999	2032.8	6201
7.0	0.703 4902	5163.7		0.639 8035	4646.1		0.277 5288	2015.3	
7.5	0.697 2672	5207.9	15443	0.645 3544	4605.4	14007	0.279 9366	1997.7	6092
8.0	0.690 9914	5251.7		0.650 8562	4564.3		0.282 3232	1979.9	
8.5	0.684 6634	5294.9	15705	0.656 3085	4522.9	13753	0.284 6884	1962.0	5981

Mittleres Äquinoktium 1916.0

1916	*X*	Stündliche Änderung	Reduktion auf 1925.0	*Y*	Stündliche Änderung	Reduktion auf 1925.0	*Z*	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Nov. 8.0	—0.690 9914	5251.7		—0.650 8562	4564.3		—0.282 3232	1979.9	
8.5	0.684 6634	5294.9	+15705	0.656 3085	4522.9	—13753	0.284 6884	1962.0	—5981
9.0	0.678 2837	5337.9		0.661 7110	4481.3		0.287 0320	1943.9	
9.5	0.671 8526	5380.5	15962	0.667 0634	4439.4	13495	0.289 3538	1925.8	5869
10.0	0.665 3705	5422.8		0.672 3653	4397.1		0.291 6538	1907.5	
10.5	0.658 8379	5464.9	16214	0.677 6163	4354.5	13233	0.293 9318	1889.1	5755
11.0	0.652 2551	5506.4		0.682 8159	4311.4		0.296 1875	1870.3	
11.5	0.645 6227	5547.5	16461	0.687 9635	4268.0	12968	0.298 4206	1851.5	5640
12.0	0.638 9412	5588.3		0.693 0589	4224.3		0.300 6311	1832.6	
12.5	0.632 2109	5628.6	16703	0.698 1017	4180.3	12698	0.302 8188	1813.6	5522
13.0	—0.625 4324	5668.7		—0.703 0916	4136.0		—0.304 9836	1794.4	
13.5	0.618 6061	5708.4	+16940	0.708 0281	4091.4	—12424	0.307 1253	1775.1	—5403
14.0	0.611 7324	5747.7		0.712 9109	4046.5		0.309 2437	1755.6	
14.5	0.604 8117	5786.6	17172	0.717 7395	4001.1	12146	0.311 3386	1735.9	5282
15.0	0.597 8448	5825.1		0.722 5135	3955.5		0.313 4098	1716.1	
15.5	0.590 8318	5863.1	17399	0.727 2325	3909.5	11865	0.315 4572	1696.1	5160
16.0	0.583 7735	5900.7		0.731 8961	3863.2		0.317 4805	1676.0	
16.5	0.576 6703	5937.9	17620	0.736 5040	3816.6	11580	0.319 4796	1655.8	5036
17.0	0.569 5227	5974.7		0.741 0557	3769.6		0.321 4543	1635.4	
17.5	0.562 3311	6011.2	17836	0.745 5508	3722.2	11291	0.323 4044	1614.8	4911
18.0	—0.555 0961	6047.1		—0.749 9889	3674.6		—0.325 3298	1594.1	
18.5	0.547 8182	6082.6	+18046	0.754 3697	3626.7	—10999	0.327 2302	1573.3	—4784
19.0	0.540 4979	6117.8		0.758 6928	3578.4		0.329 1056	1552.4	
19.5	0.533 1357	6152.4	18250	0.762 9577	3529.8	10704	0.330 9558	1531.3	4655
20.0	0.525 7323	6186.6		0.767 1641	3480.9		0.332 7807	1510.1	
20.5	0.518 2881	6220.3	18450	0.771 3117	3431.8	10405	0.334 5800	1488.7	4525
21.0	0.510 8037	6253.5		0.775 4002	3382.3		0.336 3535	1467.2	
21.5	0.503 2797	6286.3	18644	0.779 4291	3332.5	10103	0.338 1011	1445.5	4394
22.0	0.495 7167	6318.6		0.783 3980	3282.3		0.339 8226	1423.7	
22.5	0.488 1152	6350.5	18832	0.787 3065	3231.8	9798	0.341 5180	1401.9	4261
23.0	—0.480 4757	6381.9		—0.791 1543	3181.1		—0.343 1871	1379.9	
23.5	0.472 7989	6412.7	+19014	0.794 9411	3130.1	— 9489	0.344 8296	1357.7	—4127
24.0	0.465 0855	6442.9		0.798 6665	3078.8		0.346 4455	1335.3	
24.5	0.457 3361	6472.7	19191	0.802 3300	3027.1	9178	0.348 0344	1312.8	3992
25.0	0.449 5513	6501.9		0.805 9314	2975.3		0.349 5963	1290.3	
25.5	0.441 7317	6530.7	19362	0.809 4705	2923.3	8864	0.351 1313	1267.8	3856
26.0	0.433 8779	6558.9		0.812 9471	2870.9		0.352 6391	1245.1	
26.5	0.425 9905	6586.6	19526	0.816 3606	2818.2	8547	0.354 1194	1222.2	3718
27.0	0.418 0703	6613.7		0.819 7107	2765.4		0.355 5722	1199.2	
27.5	0.410 1179	6640.2	19684	0.822 9970	2712.3	8228	0.356 9975	1176.2	3579

Mittleres Äquinoktium 1916.0

1916	*X*	Stündliche Änderung	Reduktion auf 1925.0	*Y*	Stündliche Änderung	Reduktion auf 1925.0	*Z*	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
Nov. 28.0	—0.402 1340	6666.2		—0.826 2198	2658.9		—0.358 3950	1153.0	
28.5	0.394 1192	6691.6	+19836	0.829 3783	2605.3	—7906	0.359 7646	1129.8	—3439
29.0	0.386 0743	6716.5		0.832 4724	2551.6		0.361 1065	1106.7	
29.5	0.377 9998	6740.9	19982	0.835 5022	2497.8	7582	0.362 4205	1083.3	3298
30.0	0.369 8964	6764.7		0.838 4673	2443.7		0.363 7063	1059.8	
30.5	0.361 7648	6787.9	20122	0.841 3671	2389.4	7255	0.364 9639	1036.2	3155
Dez. 1.0	0.353 6057	6810.6		0.844 2016	2335.0		0.366 1932	1012.6	
1.5	0.345 4196	6832.8	20255	0.846 9710	2280.6	6926	0.367 3942	989.0	3012
2.0	0.337 2073	6854.4		0.849 6749	2225.9		0.368 5668	965.3	
2.5	0.328 9693	6875.5	20382	0.852 3130	2170.9	6595	0.369 7109	941.6	2868
3.0	—0.320 7064	6896.0		—0.854 8849	2115.8		—0.370 8265	917.7	
3.5	0.312 4191	6916.0	+20503	0.857 3908	2060.7	—6262	0.371 9134	893.8	—2723
4.0	0.304 1081	6935.6		0.859 8306	2005.5		0.372 9716	869.8	
4.5	0.295 7739	6954.7	20618	0.862 2039	1949.9	5927	0.374 0009	845.8	2578
5.0	0.287 4171	6973.2		0.864 5104	1894.3		0.375 0014	821.8	
5.5	0.279 0385	6991.0	20726	0.866 7502	1838.7	5591	0.375 9731	797.7	2431
6.0	0.270 6388	7008.4		0.868 9233	1783.0		0.376 9159	773.6	
6.5	0.262 2184	7025.4	20828	0.871 0294	1727.2	5253	0.377 8296	749.3	2284
7.0	0.253 7780	7041.9		0.873 0684	1671.1		0.378 7141	725.0	
7.5	0.245 3181	7057.8	20923	0.875 0400	1614.9	4913	0.379 5695	700.6	2136
8.0	—0.236 8395	7073.1		—0.876 9441	1558.5		—0.380 3956	676.2	
8.5	0.228 3428	7088.0	+21012	0.878 7804	1502.1	—4571	0.381 1925	651.8	—1988
9.0	0.219 8285	7102.4		0.880 5490	1445.6		0.381 9599	627.3	
9.5	0.211 2973	7116.2	21095	0.882 2498	1389.0	4228	0.382 6979	602.8	1839
10.0	0.202 7497	7129.7		0.883 8826	1332.3		0.383 4065	578.2	
10.5	0.194 1863	7142.5	21171	0.885 4472	1275.4	3884	0.384 0855	553.5	1689
11.0	0.185 6079	7154.8		0.886 9435	1218.4		0.384 7348	528.8	
11.5	0.177 0150	7166.6	21241	0.888 3713	1161.3	3539	0.385 3545	504.1	1539
12.0	0.168 4083	7177.9		0.889 7305	1104.1		0.385 9445	479.2	
12.5	0.159 7883	7188.6	21304	0.891 0210	1046.8	3192	0.386 5046	454.3	1389
13.0	—0.151 1559	7198.7		—0.892 2427	989.4		—0.387 0349	429.5	
13.5	0.142 5115	7208.5	+21360	0.893 3955	931.9	—2844	0.387 5353	404.6	—1238
14.0	0.133 8558	7217.6		0.894 4793	874.3		0.388 0057	379.5	
14.5	0.125 1894	7226.2	21410	0.895 4938	816.6	2496	0.388 4461	354.5	1086
15.0	0.116 5131	7234.3		0.896 4390	758.9		0.388 8564	329.4	
15.5	0.107 8274	7241.8	21453	0.897 3150	701.0	2147	0.389 2366	304.3	934
16.0	0.099 1330	7248.8		0.898 1214	643.0		0.389 5866	279.1	
16.5	0.090 4305	7255.3	21489	0.898 8581	584.8	1797	0.389 9063	253.8	782
17.0	0.081 7206	7261.2		0.899 5250	526.6		0.390 1958	228.6	
17.5	0.073 0039	7266.5	21519	0.900 1220	468.5	1447	0.390 4550	203.4	630

Mittleres Äquinoktium 1916.0

1916	X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
Dez. 17.0	—0.081 7206	7261.2		—0.899 5250	526.6		—0.390 1958	228.6	
17.5	0.073 0040	7266.5	+21519	0.900 1220	468.5	—1447	0.390 4550	203.4	— 630
18.0	0.064 2814	7271.2		0.900 6493	410.4		0.390 6839	178.1	
18.5	0.055 5534	7275.3	21542	0.901 1068	352.1	1096	0.390 8823	152.7	477
19.0	0.046 8207	7279.0		0.901 4942	293.6		0.391 0503	127.3	
19.5	0.038 0839	7282.1	21558	0.901 8114	235.0	745	0.391 1878	101.9	324
20.0	0.029 3438	7284.6		0.902 0583	176.5		0.391 2949	76.5	
20.5	0.020 6010	7286.6	21568	0,902 2350	117.9	393	0.391 3714	51.0	171
21.0	0.011 8563	7287.9		0.902 3413	59.3		0.391 4173	25.5	
21.5	—0.003 1103	7288.6	21571	0.902 3773	0.6	— 41	0.391 4327	0.1	— 18
22.0	+0.005 6361	7288.7		—0.902 3428	58.2		—0.391 4175	25.4	
22.5	0.014 3824	7288.2	+21568	0.902 2376	117.0	+ 311	0.391 3717	50.9	+ 135
23.0	0.023 1277	7287.1		0.902 0618	175.8		0.391 2953	76.5	
23.5	0.031 8713	7285.4	21557	0.901 8157	234.5	663	0.391 1882	102.0	288
24.0	0.040 6125	7283.2		0.901 4993	293.2		0.391 0505	127.5	
24.5	0.049 3506	7280.2	21540	0.901 1122	351.9	1014	0.390 8821	153.0	441
25.0	0.058 0848	7276.7		0.900 6544	410.7		0.390 6831	178.5	
25.5	0.066 8144	7272.5	21516	0.900 1261	469.4	1365	0.390 4537	203.9	594
26.0	0.075 5386	7267.8		0.899 5276	528.0		0.390 1938	229.3	
26.5	0.084 2568	7262.5	21485	0.898 8588	586.6	1716	0.389 9033	254.8	746
27.0	+0.092 9681	7256.4		—0.898 1198	645.1		—0.389 5824	280.1	
27.5	0.101 6718	7249.8	+21448	0.897 3106	703.5	+2066	0.389 2310	305.5	+ 899
28.0	0.110 3673	7242.6		0.896 4313	761.9		0.388 8492	330.8	
28.5	0.119 0538	7234.8	21404	0.895 4819	820.2	2416	0.388 4371	356.0	1051
29.0	0.127 7307	7226.5		0.894 4627	878.4		0.387 9947	381.2	
29.5	0.136 3972	7217.6	21353	0.893 3738	936.5	2764	0.387 5221	406.4	1203
30.0	0.145 0527	7208.2		0.892 2153	994.6		0.387 0193	431.6	
30.5	0.153 6965	7198.1	21295	0.890 9871	1052.5	3112	0.386 4864	456.6	1354
31.0	0.162 3278	7187.4		0.889 6894	1110.2		0.385 9235	481.5	
31.5	0.170 9461	7176.3	21231	0.888 3228	1167.5	3459	0.385 3307	506.5	1504
32.0	+0.179 5507	7164.6		—0.886 8874	1224.8		—0.384 7079	531.5	

Frühlingsäquinoktium . .	März	20	11h
Sommersolstitium . . .	Juni	21	6
Herbstäquinoktium . . .	Sept.	22	21
Wintersolstitium . . .	Dez.	21	16

Perigäum	Jan.	2	1h
Apogäum	Juli	2	18

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
Jan. 1.0	14 55 33.31	30 44.19	−22 7 2.7	1 48 51.4	8.24140	274	16 21.6	6.2
1.5	15 26 17.50	31 55.50	23 55 54.1	1 26 15.6	8.24414	240	16 27.8	5.4
2.0	15 58 13.00	32 56.24	25 22 9.7	1 0 23.5	8.24654	200	16 33.2	4.6
2.5	16 31 9.24	33 40.56	26 22 33.2	0 31 52.1	8.24854	151	16 37.8	3.5
3.0	17 4 49.80	34 3.66	26 54 25.3	0 1 38.3	8.25005	98	16 41.3	2.3
3.5	17 38 53.46	34 2.97	−26 56 3.6	0 29 6.5	8.25103	41	16 43.6	0.9
4.0	18 12 56.43	33 38.79	26 26 57.1	0 59 5.2	8.25144	19	16 44.5	0.4
4.5	18 46 35.22	32 54.18	25 27 51.9	1 27 5.7	8.25125	79	16 44.1	1.8
5.0	19 19 29.40	31 54.21	24 0 46.2	1 52 9.4	8.25046	136	16 42.3	3.2
5.5	19 51 23.61	30 44.83	22 8 36.8	2 13 37.9	8.24910	190	16 39.1	4.3
6.0	20 22 8.44	29 31.77	−19 54 58.9	2 31 12.5	8.24720	238	16 34.8	5.5
6.5	20 51 40.21	28 19.82	17 23 46.4	2 44 51.3	8.24482	280	16 29.3	6.3
7.0	21 20 0.03	27 12.59	14 38 55.1	2 54 45.3	8.24202	314	16 23.0	7.1
7.5	21 47 12.62	26 12.49	11 44 9.8	3 1 14.0	8.23888	339	16 15.9	7.6
8.0	22 13 25.11	25 20.94	8 42 55.8	3 4 39.9	8.23549	356	16 8.3	7.9
8.5	22 38 46.05	24 38.62	− 5 38 15.9	3 5 26.2	8.23193	364	16 0.4	8.0
9.0	23 3 24.67	24 5.66	− 2 32 49.7	3 3 54.7	8.22829	365	15 52.4	8.0
9.5	23 27 30.33	23 41.90	+ 0 31 5.0	3 0 24.6	8.22464	360	15 44.4	7.8
10.0	23 51 12.23	23 26.91	3 31 29.6	2 55 11.4	8.22104	347	15 36.6	7.4
10.5	0 14 39.14	23 20.14	6 26 41.0	2 48 27.2	8.21757	329	15 29.2	7.1
11.0	0 37 59.28	23 20.94	+ 9 15 8.2	2 40 20.9	8.21428	308	15 22.1	6.5
11.5	1 1 20.22	23 28.54	11 55 29.1	2 30 58.6	8.21120	283	15 15.6	5.9
12.0	1 24 48.76	23 42.06	14 26 27.7	2 20 24.5	8.20837	255	15 9.7	5.4
12.5	1 48 30.82	24 0.42	16 46 52.2	2 8 40.8	8.20582	226	15 4.3	4.6
13.0	2 12 31.24	24 22.49	18 55 33.0	1 55 48.8	8.20356	195	14 59.7	4.1
13.5	2 36 53.73	24 46.85	+20 51 21.8	1 41 50.2	8.20161	165	14 55.6	3.4
14.0	3 1 40.58	25 11.96	22 33 12.0	1 26 47.3	8.19996	135	14 52.2	2.7
14.5	3 26 52.54	25 36.14	23 59 59.3	1 10 44.2	8.19861	105	14 49.5	2.2
15.0	3 52 28.68	25 57.69	25 10 43.5	0 53 47.0	8.19756	75	14 47.3	1.5
15.5	4 18 26.37	26 14.95	26 4 30.5	0 36 4.9	8.19681	49	14 45.8	1.0
16.0	4 44 41.32	26 26.56	+26 40 35.4	0 17 49.6	8.19632	23	14 44.8	0.5
16.5	5 11 7.88	26 31.49	26 58 25.0	0 0 44.6	8.19609	1	14 44.3	0.0
17.0	5 37 39.37	26 29.22	26 57 40.4	0 19 21.6	8.19610	23	14 44.3	0.5
17.5	6 4 8.59	26 19.86	26 38 18.8	0 37 44.3	8.19633	43	14 44.8	0.9
18.0	6 30 28.45	26 4.02	26 0 34.5	0 55 36.3	8.19676	62	14 45.7	1.2
18.5	6 56 32.47	25 42.80	+25 4 58.2	1 12 42.3	8.19738	78	14 46.9	1.6
19.0	7 22 15.27	25 17.64	23 52 15.9	1 28 49.1	8.19816	94	14 48.5	2.0
19.5	7 47 32.91	24 50.19	22 23 26.8	1 43 46.0	8.19910	108	14 50.5	2.2
20.0	8 12 23.10	24 22.09	20 39 40.8	1 57 25.5	8.20018	120	14 52.7	2.4
20.5	8 36 45.19		18 42 15.3		8.20138		14 55.1	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (° ′ ″)	log sin $p_☾$	Diff.	Halbmesser (′ ″)	Diff. (″)
Jan. 20.0	8 12 23.10	24 22.09	+20 39 40.8	1 57 25.5	8.20018	120	14 52.7	2.4
20.5	8 36 45.19	23 54.94	18 42 15.3	2 9 42.2	8.20138	132	14 55.1	2.8
21.0	9 0 40.13	23 30.16	16 32 33.1	2 20 32.7	8.20270	144	14 57.9	3.0
21.5	9 24 10.29	23 9.01	14 12 0.4	2 29 55.2	8.20414	155	15 0.9	3.2
22.0	9 47 19.30	22 52.56	11 42 5.2	2 37 49.2	8.20569	166	15 4.1	3.4
22.5	10 10 11.86	22 41.68	+ 9 4 16.0	2 44 14.1	8.20735	177	15 7.5	3.8
23.0	10 32 53.54	22 37.14	6 20 1.9	2 49 9.2	8.20912	188	15 11.3	3.9
23.5	10 55 30.68	22 39.56	3 30 52.7	2 52 33.0	8.21100	200	15 15.2	4.2
24.0	11 18 10.24	22 49.49	+ 0 38 19.7	2 54 22.9	8.21300	210	15 19.4	4.5
24.5	11 40 59.73	23 7.36	− 2 16 3.2	2 54 34.4	8.21510	221	15 23.9	4.7
25.0	12 4 7.09	23 33.51	− 5 10 37.6	2 53 1.4	8.21731	231	15 28.6	5.0
25.5	12 27 40.60	24 8.15	8 3 39.0	2 49 35.1	8.21962	241	15 33.6	5.1
26.0	12 51 48.75	24 51.23	10 53 14.1	2 44 4.7	8.22203	248	15 38.7	5.4
26.5	13 16 39.98	25 42.37	13 37 18.8	2 36 17.7	8.22451	254	15 44.1	5.6
27.0	13 42 22.35	26 40.73	16 13 36.5	2 26 0.1	8.22705	257	15 49.7	5.6
27.5	14 9 3.08	27 44.74	−18 39 36.6	2 12 57.7	8.22962	257	15 55.3	5.7
28.0	14 36 47.82	28 52.06	20 52 34.3	1 57 0.0	8.23219	253	16 1.0	5.6
28.5	15 5 39.88	29 59.36	22 49 34.3	1 38 0.7	8.23472	244	16 6.6	5.4
29.0	15 35 39.24	31 2.45	24 27 35.0	1 16 2.5	8.23716	229	16 12.0	5.1
29.5	16 6 41.69	31 56.56	25 43 37.5	0 51 20.7	8.23945	208	16 17.1	4.8
30.0	16 38 38.25	32 36.97	−26 34 58.2	0 24 25.3	8.24153	182	16 21.9	4.1
30.5	17 11 15.22	32 59.84	26 59 23.5	0 3 59.2	8.24335	151	16 26.0	3.4
31.0	17 44 15.06	33 2.92	26 55 24.3	0 32 56.4	8.24486	114	16 29.4	2.6
31.5	18 17 17.98	32 46.23	26 22 27.9	1 1 23.7	8.24600	71	16 32.0	1.6
Febr. 1.0	18 50 4.21	32 11.92	25 21 4.2	1 28 20.3	8.24671	23	16 33.6	0.6
1.5	19 22 16.13	31 23.86	−23 52 43.9	1 52 53.3	8.24694	25	16 34.2	0.6
2.0	19 53 39.99	30 26.74	21 59 50.6	2 14 23.2	8.24669	74	16 33.6	1.7
2.5	20 24 6.73	29 25.32	19 45 27.4	2 32 24.7	8.24595	124	16 31.9	2.8
3.0	20 53 32.05	28 23.85	17 13 2.7	2 46 47.2	8.24471	171	16 29.1	3.9
3.5	21 21 55.90	27 25.58	14 26 15.5	2 57 31.8	8.24300	214	16 25.2	4.9
4.0	21 49 21.48	26 32.94	−11 28 43.7	3 4 48.2	8.24086	253	16 20.3	5.7
4.5	22 15 54.42	25 47.43	8 23 55.5	3 8 51.5	8.23833	285	16 14.6	6.3
5.0	22 41 41.85	25 9.87	5 15 4.0	3 9 59.7	8.23548	310	16 8.3	6.9
5.5	23 6 51.72	24 40.58	− 2 5 4.3	3 8 31.7	8.23238	328	16 1.4	7.2
6.0	23 31 32.30	24 19.52	+ 1 3 27.4	3 4 45.9	8.22910	338	15 54.2	7.4
6.5	23 55 51.82	24 6.39	+ 4 8 13.3	2 58 58.8	8.22572	341	15 46.8	7.5
7.0	0 19 58.21	24 0.69	7 7 12.1	2 51 24.6	8.22231	338	15 39.3	7.2
7.5	0 43 58.90	24 1.76	9 58 36.7	2 42 15.5	8.21893	328	15 32.1	7.1
8.0	1 8 0.66	24 8.87	12 40 52.2	2 31 41.1	8.21565	312	15 25.0	6.6
8.5	1 32 9.53		15 12 33.3		8.21253		15 18.4	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
Febr. 8.0	1ʰ 8ᵐ 0ˢ.66	24ᵐ 8ˢ.87	+12° 40′ 52″.2	2° 31′ 41″.1	8.21565	312	15′ 25″.0	6″.6
8.5	1 32 9.53	24 21.09	15 12 33.3	2 19 49.2	8.21253	291	15 18.4	6.1
9.0	1 56 30.62	24 37.31	17 32 22.5	2 6 45.8	8.20962	266	15 12.3	5.6
9.5	2 21 7.93	24 56.38	19 39 8.3	1 52 36.3	8.20696	237	15 6.7	4.9
10.0	2 46 4.31	25 16.89	21 31 44.6	1 37 25.6	8.20459	208	15 1.8	4.3
10.5	3 11 21.20	25 37.36	+23 9 10.2	1 21 19.2	8.20251	175	14 57.5	3.6
11.0	3 36 58.56	25 56.30	24 30 29.4	1 4 23.5	8.20076	141	14 53.9	2.9
11.5	4 2 54.86	26 12.19	25 34 52.9	0 46 46.6	8.19935	108	14 51.0	2.2
12.0	4 29 7.05	26 23.72	26 21 39.5	0 28 37.9	8.19827	74	14 48.8	1.5
12.5	4 55 30.77	26 29.85	26 50 17.4	0 10 9.4	8.19753	40	14 47.3	0.9
13.0	5 22 0.62	26 29.92	+27 0 26.8	0 8 25.8	8.19713	8	14 46.4	0.1
13.5	5 48 30.54	26 23.78	26 52 1.0	0 26 54.1	8.19705	21	14 46.3	0.4
14.0	6 14 54.32	26 11.72	26 25 6.9	0 45 1.5	8.19726	49	14 46.7	1.0
14.5	6 41 6.04	25 54.48	25 40 5.4	1 2 34.0	8.19775	75	14 47.7	1.5
15.0	7 7 0.52	25 33.20	24 37 31.4	1 19 19.4	8.19850	98	14 49.2	2.0
15.5	7 32 33.72	25 9.22	+23 18 12.0	1 35 6.8	8.19948	119	14 51.2	2.5
16.0	7 57 42.94	24 43.97	21 43 5.2	1 49 47.1	8.20067	136	14 53.7	2.8
16.5	8 22 26.91	24 18.91	19 53 18.1	2 3 12.8	8.20203	151	14 56.5	3.1
17.0	8 46 45.82	23 55.40	17 50 5.3	2 15 18.2	8.20354	164	14 59.6	3.4
17.5	9 10 41.22	23 34.66	15 34 47.1	2 25 58.6	8.20518	172	15 3.0	3.6
18.0	9 34 15.88	23 17.74	+13 8 48.5	2 35 10.0	8.20690	180	15 6.6	3.8
18.5	9 57 33.62	23 5.54	10 33 38.5	2 42 49.0	8.20870	184	15 10.4	3.8
19.0	10 20 39.16	22 58.83	7 50 49.5	2 48 52.3	8.21054	187	15 14.2	4.0
19.5	10 43 37.99	22 58.23	5 1 57.2	2 53 16.6	8.21241	188	15 18.2	4.0
20.0	11 6 36.22	23 4.24	+ 2 8 40.6	2 55 57.5	8.21429	188	15 22.2	4.0
20.5	11 29 40.46	23 17.28	— 0 47 16.9	2 56 50.7	8.21617	186	15 26.2	3.9
21.0	11 52 57.74	23 37.62	3 44 7.6	2 55 50.4	8.21803	185	15 30.1	4.0
21.5	12 16 35.36	24 5.41	6 39 58.0	2 52 50.1	8.21988	182	15 34.1	3.9
22.0	12 40 40.77	24 40.59	9 32 48.1	2 47 42.3	8.22170	180	15 38.0	3.9
22.5	13 5 21.36	25 22.80	12 20 30.4	2 40 18.8	8.22350	177	15 41.9	3.9
23.0	13 30 44.16	26 11.33	—15 0 49.2	2 30 31.3	8.22527	173	15 45.8	3.7
23.5	13 56 55.49	27 4.94	17 31 20.5	2 18 12.0	8.22700	169	15 49.5	3.8
24.0	14 24 0.43	28 1.78	19 49 32.5	2 3 15.1	8.22869	165	15 53.3	3.6
24.5	14 52 2.21	28 59.28	21 52 47.6	1 45 38.6	8.23034	159	15 56.9	3.5
25.0	15 21 1.49	29 54.26	23 38 26.2	1 25 26.8	8.23193	153	16 0.4	3.4
25.5	15 50 55.75	30 43.04	—25 3 53.0	1 2 51.8	8.23346	145	16 3.8	3.2
26.0	16 21 38.79	31 21.85	26 6 44.8	0 38 15.8	8.23491	134	16 7.0	3.0
26.5	16 53 0.64	31 47.43	26 45 0.6	0 12 11.0	8.23625	120	16 10.0	2.7
27.0	17 24 48.07	31 57.52	26 57 11.6	0 14 41.3	8.23745	104	16 12.7	2.3
27.5	17 56 45.59		26 42 30.3		8.23849		16 15.0	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
Febr. 27.0	17 24 48.07	31 57.52	−26 57 11.6	0 14 41.3	8.23745	104	16 12.7	2.3
27.5	17 56 45.59	31 51.35	26 42 30.3	0 41 34.6	8.23849	85	16 15.0	1.9
28.0	18 28 36.94	31 29.85	26 0 55.7	1 7 40.6	8.23934	63	16 16.9	1.4
28.5	19 0 6.79	30 55.42	24 53 15.1	1 32 14.6	8.23997	36	16 18.3	0.8
29.0	19 31 2.21	30 11.43	23 21 0.5	1 54 38.8	8.24033	7	16 19.1	0.2
29.5	20 1 13.64	29 21.65	−21 26 21.7	2 14 24.9	8.24040	25	16 19.3	0.6
März 1.0	20 30 35.29	28 29.76	19 11 56.8	2 31 14.1	8.24015	58	16 18.7	1.3
1.5	20 59 5.05	27 38.92	16 40 42.7	2 44 56.7	8.23957	92	16 17.4	2.0
2.0	21 26 43.97	26 51.62	13 55 46.0	2 55 30.6	8.23865	127	16 15.4	2.9
2.5	21 53 35.59	26 9.66	11 0 15.4	3 2 59.1	8.23738	160	16 12.5	3.6
3.0	22 19 45.25	25 34.19	− 7 57 16.3	3 7 29.8	8.23578	192	16 8.9	4.2
3.5	22 45 19.44	25 5.84	4 49 46.5	3 9 12.6	8.23386	220	16 4.7	4.9
4.0	23 10 25.28	24 44.84	− 1 40 33.9	3 8 19.1	8.23166	244	15 59.8	5.4
4.5	23 35 10.12	24 31.13	+ 1 27 45.2	3 5 1.4	8.22922	264	15 54.4	5.8
5.0	23 59 41.25	24 24.37	4 32 46.6	2 59 31.6	8.22658	279	15 48.6	6.0
5.5	0 24 5.62	24 24.06	+ 7 32 18.2	2 52 1.0	8.22379	287	15 42.6	6.2
6.0	0 48 29.68	24 29.52	10 24 19.2	2 42 40.8	8.22092	290	15 36.4	6.3
6.5	1 12 59.20	24 39.92	13 7 0.0	2 31 40.9	8.21802	287	15 30.1	6.1
7.0	1 37 39.12	24 54.23	15 38 40.9	2 19 10.8	8.21515	279	15 24.0	5.9
7.5	2 2 33.35	25 11.31	17 57 51.7	2 5 19.5	8.21236	265	15 18.1	5.6
8.0	2 27 44.66	25 29.84	+20 3 11.2	1 50 15.8	8.20971	246	15 12.5	5.2
8.5	2 53 14.50	25 48.44	21 53 27.0	1 34 8.8	8.20725	224	15 7.3	4.6
9.0	3 19 2.94	26 5.64	23 27 35.8	1 17 7.9	8.20501	198	15 2.7	4.1
9.5	3 45 8.58	26 20.05	24 44 43.7	0 59 24.0	8.20303	168	14 58.6	3.5
10.0	4 11 28.63	26 30.41	25 44 7.7	0 41 8.2	8.20135	137	14 55.1	2.8
10.5	4 37 59.04	26 35.73	+26 25 15.9	0 22 33.3	8.19998	103	14 52.3	2.1
11.0	5 4 34.77	26 35.42	26 47 49.2	0 3 52.2	8.19895	69	14 50.2	1.5
11.5	5 31 10.19	26 29.29	26 51 41.4	0 14 42.3	8.19826	34	14 48.7	0.6
12.0	5 57 39.48	26 17.62	26 36 59.1	0 32 56.9	8.19792	2	14 48.1	0.0
12.5	6 23 57.10	26 1.10	26 4 2.2	0 50 40.3	8.19794	36	14 48.1	0.7
13.0	6 49 58.20	25 40.79	+25 13 21.9	1 7 41.9	8.19830	69	14 48.8	1.4
13.5	7 15 38.99	25 17.89	24 5 40.0	1 23 52.6	8.19899	99	14 50.2	2.1
14.0	7 40 56.88	24 53.79	22 41 47.4	1 39 5.4	8.19998	129	14 52.3	2.6
14.5	8 5 50.67	24 29.85	21 2 42.0	1 53 14.1	8.20127	155	14 54.9	3.2
15.0	8 30 20.52	24 7.37	19 9 27.9	2 6 13.8	8.20282	178	14 58.1	3.7
15.5	8 54 27.89	23 47.51	+17 3 14.1	2 17 59.7	8.20460	196	15 1.8	4.1
16.0	9 18 15.40	23 31.30	14 45 14.4	2 28 27.8	8.20656	212	15 5.9	4.4
16.5	9 41 46.70	23 19.63	12 16 46.6	2 37 33.4	8.20868	224	15 10.3	4.7
17.0	10 5 6.33	23 13.23	9 39 13.2	2 45 11.3	8.21092	232	15 15.0	4.9
17.5	10 28 19.56		6 54 1.9		8.21324		15 19.9	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log sin $p_{☾}$	Diff.	Halbmesser	Diff.
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
März 17.0	10 5 6.33	23 13.23	+ 9 39 13.2	2 45 11.3	8.21092	232	15 15.0	4.9
17.5	10 28 19.56	23 12.71	6 54 1.9	2 51 15.5	8.21324	234	15 19.9	5.0
18.0	10 51 32.27	23 18.60	4 2 46.4	2 55 39.0	8.21558	233	15 24.9	5.0
18.5	11 14 50.87	23 31.28	+ 1 7 7.4	2 58 13.8	8.21791	229	15 29.9	4.9
19.0	11 38 22.15	23 50.99	− 1 51 6.4	2 58 51.3	8.22020	220	15 34.8	4.7
19.5	12 2 13.14	24 17.86	− 4 49 57.7	2 57 21.6	8.22240	209	15 39.5	4.6
20.0	12 26 31.00	24 51.82	7 47 19.3	2 53 34.8	8.22449	195	15 44.1	4.2
20.5	12 51 22.82	25 32.45	10 40 54.1	2 47 20.8	8.22644	179	15 48.3	3.9
21.0	13 16 55.27	26 19.01	13 28 14.9	2 38 30.5	8.22823	161	15 52.2	3.6
21.5	13 43 14.28	27 10.23	16 6 45.4	2 26 56.5	8.22984	143	15 55.8	3.1
22.0	14 10 24.51	28 4.25	−18 33 41.9	2 12 34.7	8.23127	125	15 58.9	2.8
22.5	14 38 28.76	28 58.55	20 46 16.6	1 55 26.2	8.23252	105	16 1.7	2.3
23.0	15 7 27.31	29 50.07	22 41 42.8	1 35 38.1	8.23357	87	16 4.0	2.0
23.5	15 37 17.38	30 35.27	24 17 20.9	1 13 26.6	8.23444	71	16 6.0	1.5
24.0	16 7 52.65	31 10.63	25 30 47.5	0 49 16.7	8.23515	54	16 7.5	1.2
24.5	16 39 3.28	31 33.15	−26 20 4.2	0 23 42.4	8.23569	38	16 8.7	0.9
25.0	17 10 36.43	31 40.75	26 43 46.6	0 2 35.4	8.23607	23	16 9.6	0.5
25.5	17 42 17.18	31 32.91	26 41 11.2	0 28 51.7	8.23630	8	16 10.1	0.2
26.0	18 13 50.09	31 10.53	26 12 19.5	0 54 22.4	8.23638	6	16 10.3	0.1
26.5	18 45 0.62	30 35.93	25 17 57.1	1 18 27.9	8.23632	19	16 10.2	0.5
27.0	19 15 36.55	29 52.35	−23 59 29.2	1 40 35.7	8.23613	35	16 9.7	0.8
27.5	19 45 28.90	29 3.35	22 18 53.5	2 0 22.4	8.23578	49	16 8.9	1.0
28.0	20 14 32.25	28 12.46	20 18 31.1	2 17 33.5	8.23529	64	16 7.9	1.5
28.5	20 42 44.71	27 22.65	18 0 57.6	2 32 1.2	8.23465	81	16 6.4	1.8
29.0	21 10 7.36	26 36.31	15 28 56.4	2 43 43.8	8.23384	97	16 4.6	2.1
29.5	21 36 43.67	25 55.22	−12 45 12.6	2 52 44.2	8.23287	115	16 2.5	2.6
30.0	22 2 38.89	25 20.52	9 52 28.4	2 59 6.6	8.23172	133	15 59.9	2.9
30.5	22 27 59.41	24 52.89	6 53 21.8	3 2 56.9	8.23039	151	15 57.0	3.3
31.0	22 52 52.30	24 32.56	3 50 24.9	3 4 21.8	8.22888	168	15 53.7	3.7
31.5	23 17 24.86	24 19.55	− 0 46 3.1	3 3 27.6	8.22720	184	15 50.0	4.0
April 1.0	23 41 44.41	24 13.60	+ 2 17 24.5	3 0 21.1	8.22536	199	15 46.0	4.3
1.5	0 5 58.01	24 14.25	5 17 45.6	2 55 8.5	8.22337	211	15 41.7	4.6
2.0	0 30 12.26	24 20.89	8 12 54.1	2 47 56.2	8.22126	221	15 37.1	4.8
2.5	0 54 33.15	24 32.70	11 0 50.3	2 38 50.7	8.21905	228	15 32.3	4.8
3.0	1 19 5.85	24 48.69	13 39 41.0	2 27 58.7	8.21677	231	15 27.5	5.0
3.5	1 43 54.54	25 7.72	+16 7 39.7	2 15 27.9	8.21446	230	15 22.5	4.8
4.0	2 9 2.26	25 28.45	18 23 7.6	2 1 26.6	8.21216	225	15 17.7	4.8
4.5	2 34 30.71	25 49.37	20 24 34.2	1 46 4.4	8.20991	216	15 12.9	4.5
5.0	3 0 20.08	26 8.93	22 10 38.6	1 29 32.5	8.20775	203	15 8.4	4.3
5.5	3 26 29.01		23 40 11.1		8.20572		15 4.1	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_{☾}$		Halbmesser	
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
April 5.0	3 0 20.08	26 8.93	+22 10 38.6	1 29 32.5	8.20775	203	15 8.4	4.3
5.5	3 26 29.01	26 25.60	23 40 11.1	1 12 3.5	8.20572	188	15 4.1	3.9
6.0	3 52 54.61	26 37.98	24 52 14.6	0 53 51.6	8.20384	167	15 0.2	3.4
6.5	4 19 32.59	26 44.92	25 46 6.2	0 35 12.1	8.20217	142	14 56.8	3.0
7.0	4 46 17.51	26 45.70	26 21 18.3	0 16 20.8	8.20075	116	14 53.8	2.3
7.5	5 13 3.21	26 40.03	+26 37 39.1	0 2 26.4	8.19959	87	14 51.5	1.8
8.0	5 39 43.24	26 28.23	26 35 12.7	0 20 54.9	8.19872	55	14 49.7	1.1
8.5	6 6 11.47	26 10.97	26 14 17.8	0 38 51.3	8.19817	21	14 48.6	0.5
9.0	6 32 22.44	25 49.36	25 35 26.5	0 56 4.6	8.19796	13	14 48.1	0.3
9.5	6 58 11.80	25 24.78	24 39 21.9	1 12 26.7	8.19809	47	14 48.4	1.0
10.0	7 23 36.58	24 58.70	+23 26 55.2	1 27 50.7	8.19856	82	14 49.4	1.6
10.5	7 48 35.28	24 32.63	21 59 4.5	1 42 12.9	8.19938	115	14 51.0	2.4
11.0	8 13 7.91	24 7.94	20 16 51.6	1 55 30.3	8.20053	149	14 53.4	3.1
11.5	8 37 15.85	23 45.92	18 21 21.3	2 7 41.1	8.20202	180	14 56.5	3.7
12.0	9 1 1.77	23 27.65	16 13 40.2	2 18 43.5	8.20382	207	15 0.2	4.3
12.5	9 24 29.42	23 14.08	+13 54 56.7	2 28 35.3	8.20589	232	15 4.5	4.8
13.0	9 47 43.50	23 6.00	11 26 21.4	2 37 13.6	8.20821	254	15 9.3	5.4
13.5	10 10 49.50	23 4.07	8 49 7.8	2 44 33.6	8.21075	271	15 14.7	5.7
14.0	10 33 53.57	23 8.82	6 4 34.2	2 50 29.2	8.21346	282	15 20.4	6.0
14.5	10 57 2.39	23 20.73	3 14 5.0	2 54 51.9	8.21628	288	15 26.4	6.2
15.0	11 20 23.12	23 40.13	+ 0 19 13.1	2 57 31.1	8.21916	290	15 32.6	6.2
15.5	11 44 3.25	24 7.24	− 2 38 18.0	2 58 14.4	8.22206	286	15 38.8	6.2
16.0	12 8 10.49	24 42.09	5 36 32.4	2 56 47.8	8.22492	276	15 45.0	6.0
16.5	12 32 52.58	25 24.46	8 33 20.2	2 52 55.9	8.22768	259	15 51.0	5.7
17.0	12 58 17.04	26 13.71	11 26 16.1	2 46 23.4	8.23027	238	15 56.7	5.3
17.5	13 24 30.75	27 8.73	−14 12 39.5	2 36 56.4	8.23265	213	16 2.0	4.7
18.0	13 51 39.48	28 7.70	16 49 35.9	2 24 23.7	8.23478	184	16 6.7	4.1
18.5	14 19 47.18	29 8.07	19 13 59.6	2 8 40.2	8.23662	152	16 10.8	3.4
19.0	14 48 55.25	30 6.48	21 22 39.8	1 49 48.4	8.23814	117	16 14.2	2.7
19.5	15 19 1.73	30 58.97	23 12 28.2	1 28 2.0	8.23931	83	16 16.9	1.8
20.0	15 50 0.70	31 41.34	−24 40 30.2	1 3 46.3	8.24014	49	16 18.7	1.1
20.5	16 21 42.04	32 9.76	25 44 16.5	0 37 39.3	8.24063	16	16 19.8	0.4
21.0	16 53 51.80	32 21.46	26 21 55.8	0 10 28.6	8.24079	16	16 20.2	0.4
21.5	17 26 13.26	32 15.28	26 32 24.4	0 16 52.4	8.24063	45	16 19.8	1.0
22.0	17 58 28.54	31 52.00	26 15 32.0	0 43 30.2	8.24018	71	16 18.8	1.6
22.5	18 30 20.54	31 14.11	−25 32 1.8	1 8 37.4	8.23947	94	16 17.2	2.1
23.0	19 1 34.65	30 25.32	24 23 24.4	1 31 36.8	8.23853	113	16 15.1	2.5
23.5	19 31 59.97	29 29.83	22 51 47.6	1 52 3.0	8.23740	128	16 12.6	2.9
24.0	20 1 29.80	28 31.74	20 59 44.6	2 9 42.1	8.23612	142	16 9.7	3.2
24.5	20 30 1.54		18 50 2.5		8.23470		16 6.5	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log sin $p_☾$	Diff.	Halbmesser	Diff.
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
April 24.0	20 1 29.80	28 31.74	−20 59 44.6	2 9 42.1	8.23612	142	16 9.7	3.2
24.5	20 30 1.54	27 34.63	18 50 2.5	2 24 30.2	8.23470	153	16 6.5	3.4
25.0	20 57 36.17	26 41.26	16 25 32.3	2 36 30.0	8.23317	161	16 3.1	3.5
25.5	21 24 17.43	25 53.63	13 49 2.3	2 45 48.9	8.23156	168	15 59.6	3.7
26.0	21 50 11.06	25 13.04	11 3 13.4	2 52 36.3	8.22988	173	15 55.9	3.8
26.5	22 15 24.10	24 40.21	− 8 10 37.1	2 57 1.6	8.22815	178	15 52.1	3.9
27.0	22 40 4.31	24 15.46	5 13 35.5	2 59 13.5	8.22637	181	15 48.2	4.0
27.5	23 4 19.77	23 58.76	− 2 14 22.0	2 59 20.1	8.22456	184	15 44.2	3.9
28.0	23 28 18.53	23 49.86	+ 0 44 58.1	2 57 27.3	8.22272	186	15 40.3	4.1
28.5	23 52 8.39	23 48.36	3 42 25.4	2 53 39.8	8.22086	188	15 36.2	4.0
29.0	0 15 56.75	23 53.64	+ 6 36 5.2	2 48 1.7	8.21898	190	15 32.2	4.1
29.5	0 39 50.39	24 4.96	9 24 6.9	2 40 36.1	8.21708	190	15 28.1	4.0
30.0	1 3 55.35	24 21.39	12 4 43.0	2 31 25.7	8.21518	190	15 24.1	4.1
30.5	1 28 16.74	24 41.81	14 36 8.7	2 20 34.0	8.21328	189	15 20.0	4.0
Mai 1.0	1 52 58.55	25 4.90	16 56 42.7	2 8 5.4	8.21139	187	15 16.0	3.9
1.5	2 18 3.45	25 29.16	+19 4 48.1	1 54 5.7	8.20952	182	15 12.1	3.8
2.0	2 43 32.61	25 52.90	20 58 53.8	1 38 43.3	8.20770	175	15 8.3	3.7
2.5	3 9 25.51	26 14.39	22 37 37.1	1 22 8.4	8.20595	166	15 4.6	3.4
3.0	3 35 39.90	26 31.94	23 59 45.5	1 4 34.4	8.20429	155	15 1.2	3.2
3.5	4 2 11.84	26 44.05	25 4 19.9	0 46 16.8	8.20274	141	14 58.0	3.0
4.0	4 28 55.89	26 49.61	+25 50 36.7	0 27 32.9	8.20133	125	14 55.0	2.5
4.5	4 55 45.50	26 47.95	26 18 9.6	0 8 41.1	8.20008	106	14 52.5	2.2
5.0	5 22 33.45	26 39.05	26 26 50.7	0 10 0.3	8.19902	84	14 50.3	1.7
5.5	5 49 12.50	26 23.40	26 16 50.4	0 28 15.0	8.19818	60	14 48.6	1.2
6.0	6 15 35.90	26 2.05	25 48 35.4	0 45 48.1	8.19758	32	14 47.4	0.7
6.5	6 41 37.95	25 36.37	+25 2 47.3	1 2 28.5	8.19726	5	14 46.7	0.1
7.0	7 7 14.32	25 8.04	24 0 18.8	1 18 7.9	8.19721	26	14 46.6	0.5
7.5	7 32 22.36	24 38.69	22 42 10.9	1 32 41.2	8.19747	58	14 47.1	1.2
8.0	7 57 1.05	24 9.97	21 9 29.7	1 46 5.9	8.19805	91	14 48.3	1.9
8.5	8 21 11.02	23 43.35	19 23 23.8	1 58 21.3	8.19896	124	14 50.2	2.5
9.0	8 44 54.37	23 20.12	+17 25 2.5	2 9 28.1	8.20020	157	14 52.7	3.3
9.5	9 8 14.49	23 1.36	15 15 34.4	2 19 26.6	8.20177	189	14 56.0	3.9
10.0	9 31 15.85	22 48.00	12 56 7.8	2 28 17.4	8.20366	220	14 59.9	4.5
10.5	9 54 3.85	22 40.82	10 27 50.4	2 36 0.0	8.20586	248	15 4.4	5.2
11.0	10 16 44.67	22 40.47	7 51 50.4	2 42 31.7	8.20834	274	15 9.6	5.8
11.5	10 39 25.14	22 47.48	+ 5 9 18.7	2 47 48.0	8.21108	297	15 15.4	6.3
12.0	11 2 12.62	23 2.36	+ 2 21 30.7	2 51 41.9	8.21405	315	15 21.7	6.7
12.5	11 25 14.98	23 25.46	− 0 30 11.2	2 54 3.1	8.21720	328	15 28.4	7.0
13.0	11 48 40.44	23 57.10	3 24 14.3	2 54 39.3	8.22048	335	15 35.4	7.2
13.5	12 12 37.54		6 18 53.6		8.22383		15 42.6	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
Mai 13.0	11 48 40.44	23 57.10	− 3 24 14.3	2 54 39.3	8.22048	335	15 35.4	7.2
13.5	12 12 37.54	24 37.35	6 18 53.6	2 53 14.2	8.22383	335	15 42.6	7.3
14.0	12 37 14.89	25 26.05	9 12 7.8	2 49 29.8	8.22718	329	15 49.9	7.3
14.5	13 2 40.94	26 22.57	12 1 37.6	2 43 6.7	8.23047	316	15 57.2	7.0
15.0	13 29 3.51	27 25.70	14 44 44.3	2 33 45.4	8.23363	296	16 4.2	6.5
15.5	13 56 29.21	28 33.45	−17 18 29.7	2 21 8.7	8.23659	268	16 10.7	6.0
16.0	14 25 2.66	29 42.80	19 39 38.4	2 5 5.6	8.23927	233	16 16.7	5.3
16.5	14 54 45.46	30 49.79	21 44 44.0	1 45 34.5	8.24160	195	16 22.0	4.4
17.0	15 25 35.25	31 49.61	23 30 18.5	1 22 47.0	8.24355	152	16 26.4	3.5
17.5	15 57 24.86	32 37.17	24 53 5.5	0 57 11.2	8.24507	105	16 29.9	2.4
18.0	16 30 2.03	33 7.84	−25 50 16.7	0 29 31.4	8.24612	56	16 32.3	1.3
18.5	17 3 9.87	33 18.42	26 19 48.1	0 0 46.0	8.24668	7	16 33.6	0.1
19.0	17 36 28.29	33 7.88	26 20 34.1	0 27 59.9	8.24675	39	16 33.7	0.9
19.5	18 9 36.17	32 37.57	25 52 34.2	0 55 40.9	8.24636	83	16 32.8	1.9
20.0	18 42 13.74	31 50.98	24 56 53.3	1 21 21.6	8.24553	124	16 30.9	2.8
20.5	19 14 4.72	30 52.85	−23 35 31.7	1 44 19.5	8.24429	158	16 28.1	3.6
21.0	19 44 57.57	29 48.35	21 51 12.2	2 4 9.8	8.24271	188	16 24.5	4.2
21.5	20 14 45.92	28 42.24	19 47 2.4	2 20 42.3	8.24083	213	16 20.3	4.8
22.0	20 43 28.16	27 38.42	17 26 20.1	2 33 58.2	8.23870	232	16 15.5	5.2
22.5	21 11 6.58	26 39.79	14 52 21.9	2 44 8.0	8.23638	245	16 10.3	5.5
23.0	21 37 46.37	25 48.26	−12 8 13.9	2 51 25.7	8.23393	252	16 4.8	5.6
23.5	22 3 34.63	25 4.98	9 16 48.2	2 56 7.0	8.23141	256	15 59.2	5.6
24.0	22 28 39.61	24 30.47	6 20 41.2	2 58 27.7	8.22885	257	15 53.6	5.6
24.5	22 53 10.08	24 4.86	3 22 13.5	2 58 40.9	8.22628	254	15 48.0	5.5
25.0	23 17 14.94	23 47.95	− 0 23 32.6	2 56 57.8	8.22374	247	15 42.5	5.4
25.5	23 41 2.89	23 39.35	+ 2 33 25.2	2 53 27.3	8.22127	240	15 37.1	5.2
26.0	0 4 42.24	23 38.52	5 26 52.5	2 48 15.6	8.21887	232	15 31.9	4.9
26.5	0 28 20.76	23 44.72	8 15 8.1	2 41 26.9	8.21655	221	15 27.0	4.7
27.0	0 52 5.48	23 57.15	10 56 35.0	2 33 4.4	8.21434	210	15 22.3	4.5
27.5	1 16 2.63	24 14.81	13 29 39.4	2 23 10.0	8.21224	199	15 17.8	4.2
28.0	1 40 17.44	24 36.45	+15 52 49.4	2 11 45.7	8.21025	189	15 13.6	3.9
28.5	2 4 53.89	25 0.64	18 4 35.1	1 58 54.0	8.20836	177	15 9.7	3.7
29.0	2 29 54.53	25 25.81	20 3 29.1	1 44 39.4	8.20659	165	15 6.0	3.5
29.5	2 55 20.34	25 50.19	21 48 8.5	1 29 8.4	8.20494	154	15 2.5	3.2
30.0	3 21 10.53	26 11.93	23 17 16.9	1 12 29.8	8.20340	141	14 59.3	2.9
30.5	3 47 22.46	26 29.28	+24 29 46.7	0 54 56.0	8.20199	128	14 56.4	2.6
31.0	4 13 51.74	26 40.72	25 24 42.7	0 36 42.4	8.20071	115	14 53.8	2.4
31.5	4 40 32.46	26 45.13	26 1 25.1	0 18 5.8	8.19956	100	14 51.4	2.0
Juni 1.0	5 7 17.59	26 41.92	26 19 30.9	0 0 34.5	8.19856	85	14 49.4	1.8
1.5	5 33 59.51		26 18 56.4		8.19771		14 47.6	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
Juni 1.0	5 7 17.59	26 41.92	+26 19 30.9	0 0 34.5	8.19856	85	14 49.4	1.8
1.5	5 33 59.51	26 31.11	26 18 56.4	0 19 0.2	8.19771	67	14 47.6	1.4
2.0	6 0 30.62	26 13.35	25 59 56.2	0 36 53.5	8.19704	49	14 46.2	1.0
2.5	6 26 43.97	25 49.81	25 23 2.7	0 53 59.4	8.19655	29	14 45.2	0.5
3.0	6 52 33.78	25 21.97	24 29 3.3	1 10 6.3	8.19626	7	14 44.7	0.2
3.5	7 17 55.75	24 51.56	+23 18 57.0	1 25 5.1	8.19619	—17	14 44.5	—0.4
4.0	7 42 47.31	24 20.35	21 53 51.9	1 38 51.2	8.19636	42	14 44.9	0.8
4.5	8 7 7.66	23 49.96	20 15 0.7	1 51 22.4	8.19678	69	14 45.7	1.4
5.0	8 30 57.62	23 21.89	18 23 38.3	2 2 38.1	8.19747	97	14 47.1	2.0
5.5	8 54 19.51	22 57.45	16 21 0.2	2 12 40.3	8.19844	126	14 49.1	2.6
6.0	9 17 16.96	22 37.68	+14 8 19.9	2 21 30.8	8.19970	156	14 51.7	3.2
6.5	9 39 54.64	22 23.54	11 46 49.1	2 29 11.3	8.20126	186	14 54.9	3.8
7.0	10 2 18.18	22 15.73	9 17 37.8	2 35 42.9	8.20312	215	14 58.7	4.5
7.5	10 24 33.91	22 14.91	6 41 54.9	2 41 5.2	8.20527	244	15 3.2	5.1
8.0	10 46 48.82	22 21.67	4 0 49.7	2 45 15.7	8.20771	271	15 8.3	5.7
8.5	11 9 10.49	22 36.46	+ 1 15 34.0	2 48 9.8	8.21042	296	15 14.0	6.2
9.0	11 31 46.95	22 59.74	− 1 32 35.8	2 49 39.6	8.21338	318	15 20.2	6.8
9.5	11 54 46.69	23 31.86	4 22 15.4	2 49 34.4	8.21656	335	15 27.0	7.2
10.0	12 18 18.55	24 13.03	7 11 49.8	2 47 40.2	8.21991	349	15 34.2	7.5
10.5	12 42 31.58	25 3.20	9 59 30.0	2 43 40.3	8.22340	357	15 41.7	7.8
11.0	13 7 34.78	26 1.92	−12 43 10.3	2 37 14.6	8.22697	357	15 49.5	7.8
11.5	13 33 36.70	27 8.16	15 20 24.9	2 28 2.4	8.23054	351	15 57.3	7.8
12.0	14 0 44.86	28 20.10	17 48 27.3	2 15 43.8	8.23405	336	16 5.1	7.5
12.5	14 29 4.96	29 34.87	20 4 11.1	2 0 2.7	8.23741	315	16 12.6	7.1
13.0	14 58 39.83	30 48.46	22 4 13.8	1 40 51.3	8.24056	285	16 19.7	6.4
13.5	15 29 28.29	31 55.88	−23 45 5.1	1 18 14.3	8.24341	247	16 26.1	5.6
14.0	16 1 24.17	32 51.56	25 3 19.4	0 52 33.6	8.24588	202	16 31.7	4.7
14.5	16 34 15.73	33 30.23	25 55 53.0	0 24 30.4	8.24790	153	16 36.4	3.5
15.0	17 7 45.96	33 47.94	26 20 23.4	0 4 57.0	8.24943	98	16 39.9	2.2
15.5	17 41 33.90	33 42.90	26 15 26.4	0 34 39.0	8.25041	41	16 42.1	1.0
16.0	18 15 16.80	33 16.14	−25 40 47.4	1 3 22.9	8.25082	—16	16 43.1	—0.4
16.5	18 48 32.94	32 31.04	24 37 24.5	1 30 2.9	8.25066	72	16 42.7	1.7
17.0	19 21 3.98	31 32.62	23 7 21.6	1 53 48.2	8.24994	125	16 41.0	2.8
17.5	19 52 36.60	30 26.50	21 13 33.4	2 14 6.1	8.24869	174	16 38.2	4.0
18.0	20 23 3.10	29 17.94	18 59 27.3	2 30 41.8	8.24695	216	16 34.2	5.0
18.5	20 52 21.04	28 11.28	−16 28 45.5	2 43 35.7	8.24479	252	16 29.2	5.7
19.0	21 20 32.32	27 9.74	13 45 9.8	2 52 59.2	8.24227	280	16 23.5	6.3
19.5	21 47 42.06	26 15.46	10 52 10.6	2 59 9.2	8.23947	301	16 17.2	6.8
20.0	22 13 57.52	25 29.69	7 53 1.4	3 2 26.0	8.23646	316	16 10.4	7.0
20.5	22 39 27.21		4 50 35.4		8.23330		16 3.4	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ° ′ ″	log sin $p_{☾}$	Diff.	Halbmesser ′ ″	Diff. ″
Juni 20.0	22 13 57.52	25 29.69	− 7 53 1.4	3 2 26.0	8.23646	316	16 10.4	7.0
20.5	22 39 27.21	24 52.99	4 50 35.4	3 3 9.4	8.23330	322	16 3.4	7.1
21.0	23 4 20.20	24 25.44	− 1 47 26.0	3 1 37.9	8.23008	323	15 56.3	7.1
21.5	23 28 45.64	24 6.82	+ 1 14 11.9	2 58 6.8	8.22685	319	15 49.2	6.9
22.0	23 52 52.46	23 56.68	4 12 18.7	2 52 49.0	8.22366	310	15 42.3	6.7
22.5	0 16 49.14	23 54.38	+ 7 5 7.7	2 45 54.0	8.22056	297	15 35.6	6.4
23.0	0 40 43.52	23 59.15	9 51 1.7	2 37 28.9	8.21759	281	15 29.2	6.0
23.5	1 4 42.67	24 10.09	12 28 30.6	2 27 38.8	8.21478	264	15 23.2	5.6
24.0	1 28 52.76	24 26.10	14 56 9.4	2 16 27.2	8.21214	246	15 17.6	5.2
24.5	1 53 18.86	24 45.89	17 12 36.6	2 3 57.0	8.20968	226	15 12.4	4.7
25.0	2 18 4.75	25 8.07	+19 16 33.6	1 50 11.9	8.20742	204	15 7.7	4.2
25.5	2 43 12.82	25 30.97	21 6 45.5	1 35 15.8	8.20538	183	15 3.5	3.9
26.0	3 8 43.79	25 52.85	22 42 1.3	1 19 15.0	8.20355	163	14 59.6	3.3
26.5	3 34 36.64	26 11.95	24 1 16.3	1 2 17.7	8.20192	144	14 56.3	3.0
27.0	4 0 48.59	26 26.58	25 3 34.0	0 44 35.7	8.20048	124	14 53.3	2.6
27.5	4 27 15.17	26 35.32	+25 48 9.7	0 26 22.6	8.19924	105	14 50.7	2.1
28.0	4 53 50.49	26 37.19	26 14 32.3	0 7 54.9	8.19819	87	14 48.6	1.8
28.5	5 20 27.68	26 31.74	26 22 27.2	0 10 30.3	8.19732	69	14 46.8	1.4
29.0	5 46 59.42	26 19.10	26 11 56.9	0 28 35.3	8.19663	51	14 45.4	1.0
29.5	6 13 18.52	25 59.93	25 43 21.6	0 46 3.6	8.19612	33	14 44.4	0.7
30.0	6 39 18.45	25 35.42	+24 57 18.0	1 2 40.8	8.19579	15	14 43.7	0.3
30.5	7 4 53.87	25 7.06	23 54 37.2	1 18 15.3	8.19564	3	14 43.4	0.0
Juli 1.0	7 30 0.93	24 36.46	22 36 21.9	1 32 38.7	8.19567	21	14 43.4	0.5
1.5	7 54 37.39	24 5.29	21 3 43.2	1 45 45.7	8.19588	41	14 43.9	0.8
2.0	8 18 42.68	23 35.12	19 17 57.5	1 57 33.3	8.19629	61	14 44.7	1.3
2.5	8 42 17.80	23 7.32	+17 20 24.2	2 8 1.4	8.19690	82	14 46.0	1.6
3.0	9 5 25.12	22 43.12	15 12 22.8	2 17 11.0	8.19772	104	14 47.6	2.2
3.5	9 28 8.24	22 23.52	12 55 11.8	2 25 3.6	8.19876	127	14 49.8	2.6
4.0	9 50 31.76	22 9.33	10 30 8.2	2 31 41.1	8.20003	151	14 52.4	3.1
4.5	10 12 41.09	22 1.31	7 58 27.1	2 37 5.0	8.20154	176	14 55.5	3.6
5.0	10 34 42.40	22 0.03	+ 5 21 22.1	2 41 15.8	8.20330	200	14 59.1	4.2
5.5	10 56 42.43	22 6.02	+ 2 40 6.3	2 44 11.9	8.20530	224	15 3.3	4.6
6.0	11 18 48.45	22 19.75	− 0 4 5.6	2 45 50.4	8.20754	248	15 7.9	5.2
6.5	11 41 8.20	22 41.64	2 49 56.0	2 46 6.0	8.21002	272	15 13.1	5.8
7.0	12 3 49.84	23 12.04	5 36 2.0	2 44 50.5	8.21274	293	15 18.9	6.2
7.5	12 27 1.88	23 51.12	− 8 20 52.5	2 41 52.8	8.21567	311	15 25.1	6.7
8.0	12 50 53.00	24 38.89	11 2 45.3	2 36 59.3	8.21878	327	15 31.8	7.0
8.5	13 15 31.89	25 35.00	13 39 44.6	2 29 53.9	8.22205	339	15 38.8	7.3
9.0	13 41 6.89	26 38.60	16 9 38.5	2 20 18.5	8.22544	345	15 46.1	7.6
9.5	14 7 45.49		18 29 57.0		8.22889		15 53.7	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log sin $p_{☾}$	Diff.	Halbmesser	Diff.
Juli 9.0	13h 41m 6.89s	26m 38.60s	−16° 9′ 38.5″	2° 20′ 18.5″	8.22544	345	15′ 46.1″	7.6″
9.5	14 7 45.49	27 48.09	18 29 57.0	2 7 55.2	8.22889	346	15 53.7	7.6
10.0	14 35 33.58	29 0.99	20 37 52.2	1 52 28.9	8.23235	340	16 1.3	7.6
10.5	15 4 34.57	30 13.75	22 30 21.1	1 33 50.1	8.23575	326	16 8.9	7.3
11.0	15 34 48.32	31 21.91	24 4 11.2	1 11 59.1	8.23901	305	16 16.2	6.8
11.5	16 6 10.23	32 20.31	−25 16 10.3	0 47 11.5	8.24206	275	16 23.0	6.3
12.0	16 38 30.54	33 3.90	26 3 21.8	0 19 59.0	8.24481	239	16 29.3	5.5
12.5	17 11 34.44	33 28.52	26 23 20.8	0 8 49.1	8.24720	194	16 34.8	4.4
13.0	17 45 2.96	33 31.99	26 14 31.7	0 38 10.2	8.24914	144	16 39.2	3.4
13.5	18 18 34.95	33 14.45	25 36 21.5	1 6 55.2	8.25058	90	16 42.6	2.0
14.0	18 51 49.40	32 38.47	−24 29 26.3	1 33 57.8	8.25148	31	16 44.6	0.7
14.5	19 24 27.87	31 48.36	22 55 28.5	1 58 21.4	8.25179	28	16 45.3	0.6
15.0	19 56 16.23	30 49.29	20 57 7.1	2 19 25.5	8.25151	88	16 44.7	2.1
15.5	20 27 5.52	29 46.33	18 37 41.6	2 36 46.0	8.25063	144	16 42.6	3.3
16.0	20 56 51.85	28 43.89	16 0 55.6	2 50 15.5	8.24919	195	16 39.3	4.4
16.5	21 25 35.74	27 45.37	−13 10 40.1	2 59 58.6	8.24724	241	16 34.9	5.6
17.0	21 53 21.11	26 53.12	10 10 41.5	3 6 8.6	8.24483	279	16 29.3	6.3
17.5	22 20 14.23	26 8.60	7 4 32.9	3 9 4.1	8.24204	311	16 23.0	7.0
18.0	22 46 22.83	25 32.52	3 55 28.8	3 9 5.9	8.23893	333	16 16.0	7.5
18.5	23 11 55.35	25 5.12	− 0 46 22.9	3 6 34.4	8.23560	348	16 8.5	7.7
19.0	23 37 0.47	24 46.22	+ 2 20 11.5	3 1 48.3	8.23212	355	16 0.8	7.8
19.5	0 1 46.69	24 35.37	5 21 59.8	2 55 4.2	8.22857	354	15 53.0	7.8
20.0	0 26 22.06	24 31.96	8 17 4.0	2 46 35.8	8.22503	349	15 45.2	7.5
20.5	0 50 54.02	24 35.16	11 3 39.8	2 36 34.0	8.22154	337	15 37.7	7.2
21.0	1 15 29.18	24 43.99	13 40 13.8	2 25 7.8	8.21817	320	15 30.5	6.9
21.5	1 40 13.17	24 57.33	+16 5 21.6	2 12 24.3	8.21497	300	15 23.6	6.3
22.0	2 5 10.50	25 13.87	18 17 45.9	1 58 29.4	8.21197	277	15 17.3	5.9
22.5	2 30 24.37	25 32.14	20 16 15.3	1 43 29.0	8.20920	252	15 11.4	5.2
23.0	2 55 56.51	25 50.56	21 59 44.3	1 27 29.6	8.20668	225	15 6.2	4.7
23.5	3 21 47.07	26 7.48	23 27 13.9	1 10 39.0	8.20443	198	15 1.5	4.1
24.0	3 47 54.55	26 21.33	+24 37 52.9	0 53 6.1	8.20245	171	14 57.4	3.6
24.5	4 14 15.88	26 30.67	25 30 59.0	0 35 2.7	8.20074	144	14 53.8	2.9
25.0	4 40 46.55	26 34.37	26 6 1.7	0 16 42.0	8.19930	118	14 50.9	2.5
25.5	5 7 20.92	26 31.73	26 22 43.7	0 1 41.7	8.19812	93	14 48.4	1.8
26.0	5 33 52.65	26 22.52	26 21 2.0	0 19 52.8	8.19719	68	14 46.6	1.4
26.5	6 0 15.17	26 7.09	+26 1 9.2	0 37 36.4	8.19651	45	14 45.2	0.9
27.0	6 26 22.26	25 46.22	25 23 32.8	0 54 38.1	8.19606	24	14 44.3	0.5
27.5	6 52 8.48	25 21.03	24 28 54.7	1 10 45.9	8.19582	2	14 43.8	0.1
28.0	7 17 29.51	24 52.90	23 18 8.8	1 25 49.7	8.19580	18	14 43.7	0.4
28.5	7 42 22.41		21 52 19.1		8.19598		14 44.1	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log sin $p_☾$	Diff.	Halbmesser	Diff.
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
Juli 28.0	7 17 29.51	24 52.90	+23 18 8.8	1 25 49.7	8.19580	18	14 43.7	0.4
28.5	7 42 22.41	24 23.35	21 52 19.1	1 39 42.1	8.19598	35	14 44.1	0.7
29.0	8 6 45.76	23 53.82	20 12 37.0	1 52 17.9	8.19633	53	14 44.8	1.1
29.5	8 30 39.58	23 25.66	18 20 19.1	2 3 33.9	8.19686	69	14 45.9	1.4
30.0	8 54 5.24	23 0.09	16 16 45.2	2 13 29.1	8.19755	86	14 47.3	1.8
30.5	9 17 5.33	22 38.16	+14 3 16.1	2 22 2.8	8.19841	103	14 49.1	2.1
31.0	9 39 43.49	22 20.70	11 41 13.3	2 29 15.8	8.19944	119	14 51.2	2.4
31.5	10 2 4.19	22 8.48	9 11 57.5	2 35 8.6	8.20063	134	14 53.6	2.8
Aug. 1.0	10 24 12.67	22 2.10	6 36 48.9	2 39 41.3	8.20197	151	14 56.4	3.1
1.5	10 46 14.77	22 2.04	3 57 7.6	2 42 53.7	8.20348	167	14 59.5	3.5
2.0	11 8 16.81	22 8.81	+ 1 14 13.9	2 44 44.4	8.20515	184	15 3.0	3.8
2.5	11 30 25.62	22 22.73	− 1 30 30.5	2 45 10.5	8.20699	201	15 6.8	4.2
3.0	11 52 48.35	22 44.16	4 15 41.0	2 44 7.4	8.20900	218	15 11.0	4.6
3.5	12 15 32.51	23 13.29	6 59 48.4	2 41 28.8	8.21118	234	15 15.6	4.9
4.0	12 38 45.80	23 50.24	9 41 17.2	2 37 6.8	8.21352	249	15 20.5	5.3
4.5	13 2 36.04	24 34.85	−12 18 24.0	2 30 50.4	8.21601	265	15 25.8	5.7
5.0	13 27 10.89	25 26.66	14 49 14.4	2 22 27.9	8.21866	277	15 31.5	5.9
5.5	13 52 37.55	26 24.74	17 11 42.3	2 11 46.7	8.22143	287	15 37.4	6.3
6.0	14 19 2.29	27 27.57	19 23 29.0	1 58 34.3	8.22430	295	15 43.7	6.4
6.5	14 46 29.86	28 32.87	21 22 3.3	1 42 40.7	8.22725	299	15 50.1	6.6
7.0	15 15 2.73	29 37.55	−23 4 44.0	1 24 1.1	8.23024	297	15 56.7	6.5
7.5	15 44 40.28	30 37.83	24 28 45.1	1 2 38.7	8.23321	290	16 3.2	6.5
8.0	16 15 18.11	31 29.52	25 31 23.8	0 38 47.4	8.23611	278	16 9.7	6.2
8.5	16 46 47.63	32 8.58	26 10 11.2	0 12 54.1	8.23889	258	16 15.9	5.8
9.0	17 18 56.21	32 31.72	26 23 5.3	0 14 20.7	8.24147	233	16 21.7	5.3
9.5	17 51 27.93	32 37.19	−26 8 44.6	0 42 6.6	8.24380	201	16 27.0	4.6
10.0	18 24 5.12	32 25.07	25 26 38.0	1 9 27.5	8.24581	161	16 31.6	3.6
10.5	18 56 30.19	31 57.31	24 17 10.5	1 35 26.9	8.24742	116	16 35.2	2.7
11.0	19 28 27.50	31 17.26	22 41 43.6	1 59 14.7	8.24858	67	16 37.9	1.6
11.5	19 59 44.76	30 29.07	20 42 28.9	2 20 10.5	8.24925	15	16 39.5	0.3
12.0	20 30 13.83	29 36.97	−18 22 18.4	2 37 47.4	8.24940	40	16 39.8	0.9
12.5	20 59 50.80	28 44.70	15 44 31.0	2 51 50.1	8.24900	94	16 38.9	2.2
13.0	21 28 35.50	27 55.35	12 52 40.9	3 2 14.5	8.24806	146	16 36.7	3.3
13.5	21 56 30.85	27 11.11	9 50 26.4	3 9 5.0	8.24660	194	16 33.4	4.5
14.0	22 23 41.96	26 33.40	6 41 21.4	3 12 33.0	8.24466	239	16 28.9	5.4
14.5	22 50 15.36	26 3.04	− 3 28 48.4	3 12 53.2	8.24227	276	16 23.5	6.2
15.0	23 16 18.40	25 40.32	− 0 15 55.2	3 10 22.2	8.23951	306	16 17.3	6.9
15.5	23 41 58.72	25 25.12	+ 2 54 27.0	3 5 17.9	8.23645	329	16 10.4	7.3
16.0	0 7 23.84	25 17.05	5 59 44.9	2 57 57.1	8.23316	344	16 3.1	7.6
16.5	0 32 40.89		8 57 42.0		8.22972		15 55.5	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ° ′ ″	log sin $p_☾$	Diff.	Halbmesser ′ ″	Diff. ″
Aug. 16.0	0 7 23.84	25 17.05	+ 5 59 44.9	2 57 57.1	8.23316	344	16 3.1	7.6
16.5	0 32 40.89	25 15.46	8 57 42.0	2 48 35.2	8.22972	351	15 55.5	7.7
17.0	0 57 56.35	25 19.50	11 46 17.2	2 37 26.8	8.22621	352	15 47.8	7.6
17.5	1 23 15.85	25 28.15	14 23 44.0	2 24 44.3	8.22269	345	15 40.2	7.5
18.0	1 48 44.00	25 40.20	16 48 28.3	2 10 39.1	8.21924	332	15 32.7	7.1
18.5	2 14 24.20	25 54.28	+18 59 7.4	1 55 21.9	8.21592	314	15 25.6	6.6
19.0	2 40 18.48	26 8.92	20 54 29.3	1 39 2.8	8.21278	292	15 19.0	6.2
19.5	3 6 27.40	26 22.62	22 33 32.1	1 21 52.1	8.20986	267	15 12.8	5.6
20.0	3 32 50.02	26 33.87	23 55 24.2	1 4 1.1	8.20719	240	15 7.2	5.0
20.5	3 59 23.89	26 41.33	24 59 25.3	0 45 41.8	8.20479	210	15 2.2	4.3
21.0	4 26 5.22	26 43.92	+25 45 7.1	0 27 7.0	8.20269	178	14 57.9	3.7
21.5	4 52 49.14	26 40.94	26 12 14.1	0 8 30.3	8.20091	147	14 54.2	3.0
22.0	5 19 30.08	26 32.09	26 20 44.4	0 9 54.8	8.19944	115	14 51.2	2.4
22.5	5 46 2.17	26 17.59	26 10 49.6	0 27 54.6	8.19829	84	14 48.8	1.7
23.0	6 12 19.76	25 58.01	25 42 55.0	0 45 16.8	8.19744	54	14 47.1	1.1
23.5	6 38 17.77	25 34.36	+24 57 38.2	1 1 50.5	8.19690	26	14 46.0	0.6
24.0	7 3 52.13	25 7.82	23 55 47.7	1 17 26.7	8.19664	1	14 45.4	0.1
24.5	7 28 59.95	24 39.68	22 38 21.0	1 31 58.1	8.19665	27	14 45.5	0.5
25.0	7 53 39.63	24 11.32	21 6 22.9	1 45 19.4	8.19692	50	14 46.0	1.0
25.5	8 17 50.95	23 43.98	19 21 3.5	1 57 26.5	8.19742	70	14 47.0	1.4
26.0	8 41 34.93	23 18.77	+17 23 37.0	2 8 17.0	8.19812	89	14 48.4	1.9
26.5	9 4 53.70	22 56.74	15 15 20.0	2 17 49.0	8.19901	106	14 50.3	2.2
27.0	9 27 50.44	22 38.66	12 57 31.0	2 26 1.1	8.20007	121	14 52.5	2.5
27.5	9 50 29.10	22 25.26	10 31 29.9	2 32 52.0	8.20128	135	14 55.0	2.7
28.0	10 12 54.36	22 17.12	7 58 37.9	2 38 20.2	8.20263	146	14 57.7	3.1
28.5	10 35 11.48	22 14.72	5 20 17.7	2 42 24.0	8.20409	156	15 0.8	3.2
29.0	10 57 26.20	22 18.45	+ 2 37 53.7	2 45 0.5	8.20565	165	15 4.0	3.4
29.5	11 19 44.65	22 28.62	− 0 7 6.8	2 46 6.8	8.20730	173	15 7.4	3.7
30.0	11 42 13.27	22 45.47	2 53 13.6	2 45 38.1	8.20903	181	15 11.1	3.8
30.5	12 4 58.74	23 9.18	5 38 51.7	2 43 29.2	8.21084	187	15 14.9	3.9
31.0	12 28 7.92	23 39.75	− 8 22 20.9	2 39 33.9	8.21271	194	15 18.8	4.1
31.5	12 51 47.67	24 17.03	11 1 54.8	2 33 44.5	8.21465	199	15 22.9	4.3
Sept. 1.0	13 16 4.70	25 0.60	13 35 39.3	2 25 53.2	8.21664	205	15 27.2	4.4
1.5	13 41 5.30	25 49.68	16 1 32.5	2 15 51.7	8.21869	211	15 31.6	4.5
2.0	14 6 54.98	26 43.04	18 17 24.2	2 3 32.4	8.22080	215	15 36.1	4.6
2.5	14 33 38.02	27 38.92	−20 20 56.6	1 48 49.7	8.22295	217	15 40.7	4.8
3.0	15 1 16.94	28 34.93	22 9 46.3	1 31 41.5	8.22512	220	15 45.5	4.8
3.5	15 29 51.87	29 28.18	23 41 27.8	1 12 11.3	8.22732	221	15 50.3	4.8
4.0	15 59 20.05	30 15.47	24 53 39.1	0 50 29.9	8.22953	219	15 55.1	4.8
4.5	16 29 35.52		25 44 9.0		8.23172		15 59.9	

Mittlere Zeit Greenwich

Datum		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log sin $p_☾$	Diff.	Halbmesser	Diff.
		h m s	m s	° ′ ″	° ′ ″			′ ″	″
Sept.	4.0	15 59 20.05	30 15.47	−24 53 39.1	0 50 29.9	8.22953	219	15 55.1	4.8
	4.5	16 29 35.52	30 53.46	25 44 9.0	0 26 56.5	8.23172	213	15 59.9	4.7
	5.0	17 0 28.98	31 19.43	26 11 5.5	0 2 0.2	8.23385	205	16 4.6	4.6
	5.5	17 31 48.41	31 31.50	26 13 5.7	0 23 42.7	8.23590	193	16 9.2	4.3
	6.0	18 3 19.91	31 29.12	25 49 23.0	0 49 30.1	8.23783	176	16 13.5	4.0
	6.5	18 34 49.03	31 13.11	−24 59 52.9	1 14 38.2	8.23959	154	16 17.5	3.5
	7.0	19 6 2.14	30 45.64	23 45 14.7	1 38 24.5	8.24113	129	16 21.0	2.9
	7.5	19 36 47.78	30 9.63	22 6 50.2	2 0 12.7	8.24242	98	16 23.9	2.2
	8.0	20 6 57.41	29 28.48	20 6 37.5	2 19 32.7	8.24340	63	16 26.1	1.4
	8.5	20 36 25.89	28 45.43	17 47 4.8	2 36 3.2	8.24403	24	16 27.5	0.6
	9.0	21 5 11.32	28 3.37	−15 11 1.6	2 49 30.2	8.24427	17	16 28.1	0.4
	9.5	21 33 14.69	27 24.63	12 21 31.4	2 59 47.2	8.24410	59	16 27.7	1.3
	10.0	22 0 39.32	26 50.86	9 21 44.2	3 6 52.5	8.24351	102	16 26.4	2.4
	10.5	22 27 30.18	26 23.18	6 14 51.7	3 10 49.9	8.24249	145	16 24.0	3.2
	11.0	22 53 53.36	26 2.17	− 3 4 1.8	3 11 46.1	8.24104	184	16 20.8	4.2
	11.5	23 19 55.53	25 48.01	+ 0 7 44.3	3 9 50.4	8.23920	220	16 16.6	4.9
	12.0	23 45 43.54	25 40.52	3 17 34.7	3 5 13.6	8.23700	252	16 11.7	5.6
	12.5	0 11 24.06	25 39.24	6 22 48.3	2 58 8.0	8.23448	278	16 6.1	6.2
	13.0	0 37 3.30	25 43.46	9 20 56.3	2 48 46.4	8.23170	298	15 59.9	6.6
	13.5	1 2 46.76	25 52.20	12 9 42.7	2 37 21.8	8.22872	311	15 53.3	6.8
	14.0	1 28 38.96	26 4.31	+14 47 4.5	2 24 7.9	8.22561	317	15 46.5	6.9
	14.5	1 54 43.27	26 18.46	17 11 12.4	2 9 18.4	8.22244	318	15 39.6	6.8
	15.0	2 21 1.73	26 33.12	19 20 30.8	1 53 7.3	8.21926	312	15 32.8	6.7
	15.5	2 47 34.85	26 46.76	21 13 38.1	1 35 49.4	8.21614	300	15 26.1	6.4
	16.0	3 14 21.61	26 57.87	22 49 27.5	1 17 39.8	8.21314	283	15 19.7	6.0
	16.5	3 41 19.48	27 5.05	+24 7 7.3	0 58 54.3	8.21031	262	15 13.7	5.4
	17.0	4 8 24.53	27 7.16	25 6 1.6	0 39 49.3	8.20769	237	15 8.3	5.0
	17.5	4 35 31.69	27 3.50	25 45 50.9	0 20 41.1	8.20532	208	15 3.3	4.3
	18.0	5 2 35.19	26 53.81	26 6 32.0	0 1 44.8	8.20324	177	14 59.0	3.7
	18.5	5 29 29.00	26 38.30	26 8 16.8	0 16 45.1	8.20147	144	14 55.3	2.9
	19.0	5 56 7.30	26 17.64	+25 51 31.7	0 34 35.8	8.20003	111	14 52.4	2.3
	19.5	6 22 24.94	25 52.83	25 16 55.9	0 51 36.9	8.19892	77	14 50.1	1.6
	20.0	6 48 17.77	25 25.13	24 25 19.0	1 7 40.6	8.19815	43	14 48.5	0.9
	20.5	7 13 42.90	24 55.89	23 17 38.4	1 22 40.8	8.19772	10	14 47.6	0.2
	21.0	7 38 38.79	24 26.52	21 54 57.6	1 36 33.7	8.19762	22	14 47.4	0.5
	21.5	8 3 5.31	23 58.26	+20 18 23.9	1 49 16.9	8.19784	52	14 47.9	1.1
	22.0	8 27 3.57	23 32.26	18 29 7.0	2 0 48.9	8.19836	81	14 49.0	1.6
	22.5	8 50 35.83	23 9.49	16 28 18.1	2 11 8.8	8.19917	107	14 50.6	2.2
	23.0	9 13 45.32	22 50.80	14 17 9.3	2 20 15.6	8.20024	129	14 52.8	2.6
	23.5	9 36 36.12		11 56 53.7		8.20153		14 55.4	

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Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
	h m s	m s	° ′ ″	° ′ ″			′ ″	″
Sept. 23.0	9 13 45.32	22 50.80	+14 17 9.3	2 20 15.6	8.20024	129	14 52.8	2.6
23.5	9 36 36.12	22 36.83	11 56 53.7	2 28 7.7	8.20153	149	14 55.4	3.1
24.0	9 59 12.95	22 28.14	9 28 46.0	2 34 43.1	8.20302	166	14 58.5	3.5
24.5	10 21 41.09	22 25.18	6 54 2.9	2 39 58.7	8.20468	179	15 2.0	3.7
25.0	10 44 6.27	22 28.28	4 14 4.2	2 43 50.1	8.20647	190	15 5.7	4.0
25.5	11 6 34.55	22 37.76	+ 1 30 14.1	2 46 12.4	8.20837	196	15 9.7	4.1
26.0	11 29 12.31	22 53.78	− 1 15 58.3	2 46 59.0	8.21033	201	15 13.8	4.2
26.5	11 52 6.09	23 16.45	4 2 57.3	2 46 2.2	8.21234	203	15 18.0	4.3
27.0	12 15 22.54	23 45.73	6 48 59.5	2 43 13.8	8.21437	201	15 22.3	4.3
27.5	12 39 8.27	24 21.39	9 32 13.3	2 38 25.2	8.21638	198	15 26.6	4.2
28.0	13 3 29.66	25 2.96	−12 10 38.5	2 31 27.3	8.21836	193	15 30.8	4.2
28.5	13 28 32.62	25 49.59	14 42 5.8	2 22 12.0	8.22029	186	15 35.0	4.0
29.0	13 54 22.21	26 40.02	17 4 17.8	2 10 32.5	8.22215	179	15 39.0	3.9
29.5	14 21 2.23	27 32.50	19 14 50.3	1 56 25.2	8.22394	169	15 42.9	3.7
30.0	14 48 34.73	28 24.70	21 11 15.5	1 39 50.5	8.22563	162	15 46.6	3.5
30.5	15 16 59.43	29 13.87	−22 51 6.0	1 20 55.0	8.22725	152	15 50.1	3.3
Okt. 1.0	15 46 13.30	29 57.00	24 12 1.0	0 59 52.1	8.22877	144	15 53.4	3.2
1.5	16 16 10.30	30 31.12	25 11 53.1	0 37 3.2	8.23021	133	15 56.6	2.9
2.0	16 46 41.42	30 53.73	25 48 56.3	0 12 57.6	8.23154	125	15 59.5	2.8
2.5	17 17 35.15	31 3.22	26 1 53.9	0 11 49.5	8.23279	114	16 2.3	2.5
3.0	17 48 38.37	30 59.20	−25 50 4.4	0 36 39.4	8.23393	104	16 4.8	2.3
3.5	18 19 37.57	30 42.54	25 13 25.0	1 0 53.3	8.23497	92	16 7.1	2.1
4.0	18 50 20.11	30 15.25	24 12 31.7	1 23 54.9	8.23589	79	16 9.2	1.8
4.5	19 20 35.36	29 40.11	22 48 36.8	1 45 13.7	8.23668	64	16 11.0	1.4
5.0	19 50 15.47	29 0.24	21 3 23.1	2 4 26.0	8.23732	48	16 12.4	1.1
5.5	20 19 15.71	28 18.70	−18 58 57.1	2 21 14.7	8.23780	29	16 13.5	0.6
6.0	20 47 34.41	27 38.20	16 37 42.4	2 35 28.9	8.23809	8	16 14.1	0.2
6.5	21 15 12.61	27 0.95	14 2 13.5	2 47 2.7	8.23817	15	16 14.3	0.4
7.0	21 42 13.56	26 28.58	11 15 10.8	2 55 53.5	8.23802	41	16 13.9	0.9
7.5	22 8 42.14	26 2.23	8 19 17.3	3 2 1.4	8.23761	66	16 13.0	1.4
8.0	22 34 44.37	25 42.55	− 5 17 15.9	3 5 28.2	8.23695	93	16 11.6	2.1
8.5	23 0 26.92	25 29.81	− 2 11 47.7	3 6 16.9	8.23602	122	16 9.5	2.8
9.0	23 25 56.73	25 23.93	+ 0 54 29.2	3 4 31.2	8.23480	150	16 6.7	3.3
9.5	23 51 20.66	25 24.61	3 59 0.4	3 0 16.0	8.23330	176	16 3.4	3.9
10.0	0 16 45.27	25 31.21	6 59 16.4	2 53 37.2	8.23154	200	15 59.5	4.4
10.5	0 42 16.48	25 42.86	+ 9 52 53.6	2 44 41.3	8.22954	221	15 55.1	4.8
11.0	1 7 59.34	25 58.46	12 37 34.9	2 33 36.8	8.22733	239	15 50.3	5.2
11.5	1 33 57.80	26 16.66	15 11 11.7	2 20 33.7	8.22494	253	15 45.1	5.5
12.0	2 0 14.46	26 35.89	17 31 45.4	2 5 44.1	8.22241	262	15 39.6	5.7
12.5	2 26 50.35		19 37 29.5		8.21979		15 33.9	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
	h m s	m s	° ' "	° ' "			' "	"
Okt. 12.0	2 0 14.46	26 35.89	+17 31 45.4	2 5 44.1	8.22241	262	15 39.6	5.7
12.5	2 26 50.35	26 54.43	19 37 29.5	1 49 21.7	8.21979	266	15 33.9	5.7
13.0	2 53 44.78	27 10.53	21 26 51.2	1 31 42.9	8.21713	265	15 28.2	5.6
13.5	3 20 55.31	27 22.49	22 58 34.1	1 13 5.9	8.21448	259	15 22.6	5.5
14.0	3 48 17.80	27 28.89	24 11 40.0	0 53 50.3	8.21189	248	15 17.1	5.2
14.5	4 15 46.69	27 28.68	+25 5 30.3	0 34 16.7	8.20941	232	15 11.9	4.9
15.0	4 43 15.37	27 21.37	25 39 47.0	0 14 45.1	8.20709	213	15 7.0	4.4
15.5	5 10 36.74	27 7.01	25 54 32.1	0 4 25.4	8.20496	189	15 2.6	4.0
16.0	5 37 43.75	26 46.24	25 50 6.7	0 22 58.2	8.20307	163	14 58.6	3.3
16.5	6 4 29.99	26 20.19	25 27 8.5	0 40 40.0	8.20144	133	14 55.3	2.8
17.0	6 30 50.18	25 50.26	+24 46 28.5	0 57 20.5	8.20011	101	14 52.5	2.0
17.5	6 56 40.44	25 18.05	23 49 8.0	1 12 52.9	8.19910	67	14 50.5	1.4
18.0	7 21 58.49	24 45.18	22 36 15.1	1 27 13.9	8.19843	33	14 49.1	0.7
18.5	7 46 43.67	24 13.16	21 9 1.2	1 40 21.9	8.19810	3	14 48.4	0.1
19.0	8 10 56.83	23 43.34	19 28 39.3	1 52 17.7	8.19813	38	14 48.5	0.7
19.5	8 34 40.17	23 16.84	+17 36 21.6	2 3 2.3	8.19851	71	14 49.2	1.5
20.0	8 57 57.01	22 54.63	15 33 19.3	2 12 37.4	8.19922	105	14 50.7	2.2
20.5	9 20 51.64	22 37.45	13 20 41.9	2 21 4.2	8.20027	135	14 52.9	2.7
21.0	9 43 29.09	22 25.91	10 59 37.7	2 28 22.6	8.20162	164	14 55.6	3.4
21.5	10 5 55.00	22 20.49	8 31 15.1	2 34 31.0	8.20326	189	14 59.0	4.0
22.0	10 28 15.49	22 21.58	+ 5 56 44.1	2 39 27.1	8.20515	211	15 3.0	4.4
22.5	10 50 37.07	22 29.48	3 17 17.0	2 43 5.3	8.20726	229	15 7.4	4.8
23.0	11 13 6.55	22 44.44	+ 0 34 11.7	2 45 19.3	8.20955	243	15 12.2	5.1
23.5	11 35 50.99	23 6.61	− 2 11 7.6	2 46 0.1	8.21198	252	15 17.3	5.3
24.0	11 58 57.60	23 36.01	4 57 7.7	2 44 57.2	8.21450	255	15 22.6	5.5
24.5	12 22 33.61	24 12.49	− 7 42 4.9	2 41 58.2	8.21705	256	15 28.1	5.4
25.0	12 46 46.10	24 55.67	10 24 3.1	2 36 50.5	8.21961	250	15 33.5	5.4
25.5	13 11 41.77	25 44.78	13 0 53.6	2 29 21.0	8.22211	241	15 38.9	5.2
26.0	13 37 26.55	26 38.61	15 30 14.6	2 19 17.8	8.22452	226	15 44.1	5.0
26.5	14 4 5.16	27 35.32	17 49 32.4	2 6 32.5	8.22678	209	15 49.1	4.5
27.0	14 31 40.48	28 32.50	−19 56 4.9	1 51 1.0	8.22887	188	15 53.6	4.2
27.5	15 0 12.98	29 27.11	21 47 5.9	1 32 46.8	8.23075	165	15 57.8	3.6
28.0	15 29 40.09	30 15.66	23 19 52.7	1 12 2.3	8.23240	141	16 1.4	3.2
28.5	15 59 55.75	30 54.66	24 31 55.0	0 49 9.8	8.23381	116	16 4.6	2.5
29.0	16 30 50.41	31 20.95	25 21 4.8	0 24 42.4	8.23497	91	16 7.1	2.1
29.5	17 2 11.36	31 32.45	−25 45 47.2	0 0 38.6	8.23588	67	16 9.2	1.4
30.0	17 33 43.81	31 28.41	25 45 8.6	0 26 8.5	8.23655	43	16 10.6	1.0
30.5	18 5 12.22	31 9.65	25 19 0.1	0 51 1.3	8.23698	21	16 11.6	0.5
31.0	18 36 21.87	30 38.39	24 27 58.8	1 14 35.6	8.23719	1	16 12.1	0.0
31.5	19 7 0.26		23 13 23.2		8.23720		16 12.1	

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Datum	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log sin $p_☾$	Diff.	Halbmesser	Diff.
Okt. 31.0	18ʰ 36ᵐ 21ˢ.87	30ᵐ 38ˢ.39	−24° 27′ 58″.8	1° 14′ 35″.6	8.23719	1	16′ 12″.1	0″.0
31.5	19 7 0.26	29 57.83	23 13 23.2	1 36 18.1	8.23720	17	16 12.1	0.4
Nov. 1.0	19 36 58.09	29 11.56	21 37 5.1	1 55 44.9	8.23703	34	16 11.7	0.7
1.5	20 6 9.65	28 23.18	19 41 20.2	2 12 41.0	8.23669	49	16 11.0	1.1
2.0	20 34 32.83	27 35.76	17 28 39.2	2 26 59.8	8.23620	62	16 9.9	1.4
2.5	21 2 8.59	26 51.85	−15 1 39.4	2 38 40.3	8.23558	75	16 8.5	1.7
3.0	21 29 0.44	26 13.29	12 22 59.1	2 47 45.5	8.23483	86	16 6.8	1.9
3.5	21 55 13.73	25 41.35	9 35 13.6	2 54 20.1	8.23397	98	16 4.9	2.2
4.0	22 20 55.08	25 16.73	6 40 53.5	2 58 29.9	8.23299	109	16 2.7	2.4
4.5	22 46 11.81	24 59.81	3 42 23.6	3 0 19.9	8.23190	121	16 0.3	2.6
5.0	23 11 11.62	24 50.58	− 0 42 3.7	2 59 54.6	8.23069	132	15 57.7	2.9
5.5	23 36 2.20	24 48.79	+ 2 17 50.9	2 57 17.8	8.22937	143	15 54.8	3.2
6.0	0 0 50.99	24 53.95	5 15 8.7	2 52 32.1	8.22794	155	15 51.6	3.4
6.5	0 25 44.94	25 5.30	8 7 40.8	2 45 40.4	8.22639	166	15 48.2	3.6
7.0	0 50 50.24	25 21.89	10 53 21.2	2 36 45.6	8.22473	177	15 44.6	3.9
7.5	1 16 12.13	25 42.48	+13 30 6.8	2 25 51.7	8.22296	188	15 40.7	4.0
8.0	1 41 54.61	26 5.58	15 55 58.5	2 13 4.3	8.22108	196	15 36.7	4.2
8.5	2 8 0.19	26 29.47	18 9 2.8	1 58 31.1	8.21912	203	15 32.5	4.4
9.0	2 34 29.66	26 52.24	20 7 33.9	1 42 22.9	8.21709	207	15 28.1	4.4
9.5	3 1 21.90	27 11.90	21 49 56.8	1 24 54.6	8.21502	210	15 23.7	4.5
10.0	3 28 33.80	27 26.59	+23 14 51.4	1 6 23.3	8.21292	210	15 19.2	4.4
10.5	3 56 0.39	27 34.69	24 21 14.7	0 47 9.1	8.21082	205	15 14.8	4.3
11.0	4 23 35.08	27 35.08	25 8 23.8	0 27 34.4	8.20877	198	15 10.5	4.1
11.5	4 51 10.16	27 27.26	25 35 58.2	0 8 1.7	8.20679	187	15 6.4	3.9
12.0	5 18 37.42	27 11.43	25 43 59.9	0 11 7.5	8.20492	173	15 2.5	3.6
12.5	5 45 48.85	26 48.36	+25 32 52.4	0 29 33.6	8.20319	155	14 58.9	3.2
13.0	6 12 37.21	26 19.44	25 3 18.8	0 47 1.9	8.20164	134	14 55.7	2.8
13.5	6 38 56.65	25 46.37	24 16 16.9	1 3 20.7	8.20030	110	14 52.9	2.2
14.0	7 4 43.02	25 10.97	23 12 56.2	1 18 22.9	8.19920	83	14 50.7	1.7
14.5	7 29 53.99	24 35.08	21 54 33.3	1 32 5.3	8.19837	53	14 49.0	1.1
15.0	7 54 29.07	24 0.36	+20 22 28.0	1 44 27.9	8.19784	21	14 47.9	0.4
15.5	8 18 29.43	23 28.27	18 38 0.1	1 55 32.4	8.19763	12	14 47.5	0.2
16.0	8 41 57.70	23 0.01	16 42 27.7	2 5 22.2	8.19775	46	14 47.7	0.9
16.5	9 4 57.71	22 36.58	14 37 5.5	2 14 0.9	8.19821	81	14 48.6	1.7
17.0	9 27 34.29	22 18.74	12 23 4.6	2 21 31.8	8.19902	115	14 50.3	2.4
17.5	9 49 53.03	22 7.11	+10 1 32.8	2 27 56.9	8.20017	149	14 52.7	3.0
18.0	10 12 0.14	22 2.17	7 33 35.9	2 33 16.9	8.20166	182	14 55.7	3.8
18.5	10 34 2.31	22 4.35	5 0 19.0	2 37 30.7	8.20348	213	14 59.5	4.4
19.0	10 56 6.66	22 13.99	+ 2 22 48.3	2 40 34.9	8.20561	241	15 3.9	5.0
19.5	11 18 20.65		− 0 17 46.6		8.20802		15 8.9	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log sin $p_{☾}$	Diff.	Halbmesser	Diff.
Nov. 19.0	10h 56m 6s.66	22m 13s.99	+2° 22′ 48″.3	2° 40′ 34″.9	8.20561	241	15′ 3″.9	5″.0
19.5	11 18 20.65	22 31.38	−0 17 46.6	2 42 23.5	8.20802	265	15 8.9	5.6
20.0	11 40 52.03	22 56.73	3 0 10.1	2 42 47.8	8.21067	285	15 14.5	6.0
20.5	12 3 48.76	23 30.12	5 42 57.9	2 41 36.8	8.21352	301	15 20.5	6.4
21.0	12 27 18.88	24 11.50	8 24 34.7	2 38 36.6	8.21653	311	15 26.9	6.7
21.5	12 51 30.38	25 0.52	−11 3 11.3	2 33 31.5	8.21964	314	15 33.6	6.8
22.0	13 16 30.90	25 56.39	13 36 42.8	2 26 4.9	8.22278	312	15 40.4	6.8
22.5	13 42 27.29	26 57.79	16 2 47.7	2 16 0.0	8.22590	304	15 47.2	6.6
23.0	14 9 25.08	28 2.69	18 18 47.7	2 3 3.0	8.22894	288	15 53.8	6.3
23.5	14 37 27.77	29 8.20	20 21 50.7	1 47 5.3	8.23182	266	16 0.1	6.0
24.0	15 6 35.97	30 10.71	−22 8 56.0	1 28 6.9	8.23448	239	16 6.1	5.3
24.5	15 36 46.68	31 5.94	23 37 2.9	1 6 19.0	8.23687	207	16 11.4	4.6
25.0	16 7 52.62	31 49.57	24 43 21.9	0 42 7.1	8.23894	170	16 16.0	3.8
25.5	16 39 42.19	32 17.82	25 25 29.0	0 16 10.0	8.24064	129	16 19.8	2.9
26.0	17 12 0.01	32 28.19	25 41 39.0	0 10 41.4	8.24193	88	16 22.7	2.0
26.5	17 44 28.20	32 20.02	−25 30 57.6	0 37 30.8	8.24281	46	16 24.7	1.1
27.0	18 16 48.22	31 54.69	24 53 26.8	1 3 22.0	8.24327	5	16 25.8	0.1
27.5	18 48 42.91	31 15.21	23 50 4.8	1 27 25.3	8.24332	33	16 25.9	0.7
28.0	19 19 58.12	30 25.70	22 22 39.5	1 49 2.7	8.24299	69	16 25.2	1.6
28.5	19 50 23.82	29 30.64	20 33 36.8	2 7 49.7	8.24230	101	16 23.6	2.3
29.0	20 19 54.46	28 34.18	−18 25 47.1	2 23 34.0	8.24129	128	16 21.3	2.9
29.5	20 48 28.64	27 39.77	16 2 13.1	2 36 14.3	8.24001	151	16 18.4	3.4
30.0	21 16 8.41	26 50.09	13 25 58.8	2 45 56.4	8.23850	169	16 15.0	3.8
30.5	21 42 58.50	26 6.96	10 40 2.4	2 52 50.3	8.23681	184	16 11.2	4.1
Dez. 1.0	22 9 5.46	25 31.52	7 47 12.1	2 57 8.1	8.23497	194	16 7.1	4.3
1.5	22 34 36.98	25 4.35	−4 50 4.0	2 59 1.8	8.23303	201	16 2.8	4.4
2.0	22 59 41.33	24 45.61	−1 51 2.2	2 58 42.3	8.23102	204	15 58.4	4.5
2.5	23 24 26.94	24 35.19	+1 7 40.1	2 56 18.5	8.22898	206	15 53.9	4.5
3.0	23 49 2.13	24 32.67	4 3 58.6	2 51 57.6	8.22692	206	15 49.4	4.5
3.5	0 13 34.80	24 37.46	6 55 56.2	2 45 44.8	8.22486	203	15 44.9	4.4
4.0	0 38 12.26	24 48.74	+9 41 41.0	2 37 43.9	8.22283	201	15 40.5	4.4
4.5	1 3 1.00	25 5.49	12 19 24.9	2 27 57.7	8.22082	198	15 36.1	4.2
5.0	1 28 6.49	25 26.44	14 47 22.6	2 16 29.5	8.21884	194	15 31.9	4.2
5.5	1 53 32.93	25 50.04	17 3 52.1	2 3 23.2	8.21690	190	15 27.7	4.0
6.0	2 19 22.97	26 14.54	19 7 15.3	1 48 44.1	8.21500	186	15 23.7	4.0
6.5	2 45 37.51	26 38.01	+20 55 59.4	1 32 40.6	8.21314	182	15 19.7	3.8
7.0	3 12 15.52	26 58.44	22 28 40.0	1 15 24.2	8.21132	177	15 15.9	3.7
7.5	3 39 13.96	27 13.90	23 44 4.2	0 57 9.7	8.20955	172	15 12.2	3.6
8.0	4 6 27.86	27 22.73	24 41 13.9	0 38 15.2	8.20783	165	15 8.6	3.5
8.5	4 33 50.59		25 19 29.1		8.20618		15 5.1	

Mittlere Zeit Greenwich

Datum		Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
		h m s	m s	° ′ ″	° ′ ″			′ ″	″
Dez.	8.0	4 6 27.86	27 22.73	+24 41 13.9	0 38 15.2	8.20783	165	15 8.6	3.5
	8.5	4 33 50.59	27 23.78	25 19 29.1	0 19 1.5	8.20618	158	15 5.1	3.3
	9.0	5 1 14.37	27 16.51	25 38 30.6	0 0 9.8	8.20460	149	15 1.8	3.1
	9.5	5 28 30.88	27 1.01	25 38 20.8	0 18 57.2	8.20311	139	14 58.7	2.9
	10.0	5 55 31.89	26 38.13	25 19 23.6	0 37 1.2	8.20172	127	14 55.8	2.6
	10.5	6 22 10.02	26 9.17	+24 42 22.4	0 54 5.5	8.20045	113	14 53.2	2.3
	11.0	6 48 19.19	25 35.85	23 48 16.9	1 9 57.8	8.19932	96	14 50.9	1.9
	11.5	7 13 55.04	25 0.00	22 38 19.1	1 24 29.8	8.19836	77	14 49.0	1.6
	12.0	7 38 55.04	24 23.49	21 13 49.3	1 37 37.6	8.19759	55	14 47.4	1.1
	12.5	8 3 18.53	23 48.00	19 36 11.7	1 49 20.2	8.19704	32	14 46.3	0.7
	13.0	8 27 6.53	23 15.01	+17 46 51.5	1 59 39.6	8.19672	6	14 45.6	0.1
	13.5	8 50 21.54	22 45.77	15 47 11.9	2 8 38.9	8.19666	21	14 45.5	0.4
	14.0	9 13 7.31	22 21.25	13 38 33.0	2 16 22.8	8.19687	51	14 45.9	1.0
	14.5	9 35 28.56	22 2.27	11 22 10.2	2 22 54.6	8.19738	82	14 46.9	1.7
	15.0	9 57 30.83	21 49.46	8 59 15.6	2 28 18.5	8.19820	115	14 48.6	2.4
	15.5	10 19 20.29	21 43.33	+ 6 30 57.1	2 32 36.7	8.19935	147	14 51.0	3.0
	16.0	10 41 3.62	21 44.34	3 58 20.4	2 35 49.7	8.20082	179	14 54.0	3.7
	16.5	11 2 47.96	21 52.84	+ 1 22 30.7	2 37 56.2	8.20261	211	14 57.7	4.4
	17.0	11 24 40.80	22 9.20	− 1 15 25.5	2 38 52.6	8.20472	243	15 2.1	5.0
	17.5	11 46 50.00	22 33.68	3 54 18.1	2 38 32.6	8.20715	271	15 7.1	5.7
	18.0	12 9 23.68	23 6.49	− 6 32 50.7	2 36 47.0	8.20986	297	15 12.8	6.3
	18.5	12 32 30.17	23 47.68	9 9 37.7	2 33 24.0	8.21283	319	15 19.1	6.8
	19.0	12 56 17.85	24 37.06	11 43 1.7	2 28 8.7	8.21602	337	15 25.9	7.2
	19.5	13 20 54.91	25 34.10	14 11 10.4	2 20 44.8	8.21939	350	15 33.1	7.5
	20.0	13 46 29.01	26 37.70	16 31 55.2	2 10 54.5	8.22289	355	15 40.6	7.7
	20.5	14 13 6.71	27 46.07	−18 42 49.7	1 58 20.6	8.22644	355	15 48.3	7.8
	21.0	14 40 52.78	28 56.53	20 41 10.3	1 42 50.2	8.22999	346	15 56.1	7.7
	21.5	15 9 49.31	30 5.49	22 24 0.5	1 24 16.7	8.23345	330	16 3.8	7.3
	22.0	15 39 54.80	31 8.59	23 48 17.2	1 2 44.7	8.23675	306	16 11.1	6.9
	22.5	16 11 3.39	32 1.09	24 51 1.9	0 38 32.5	8.23981	273	16 18.0	6.1
	23.0	16 43 4.48	32 38.53	−25 29 34.4	0 12 15.0	8.24254	234	16 24.1	5.4
	23.5	17 15 43.01	32 57.63	25 41 49.4	0 15 18.4	8.24488	188	16 29.5	4.3
	24.0	17 48 40.64	32 56.91	25 26 31.0	0 43 7.9	8.24676	138	16 33.8	3.1
	24.5	18 21 37.55	32 37.16	24 43 23.1	1 10 9.8	8.24814	85	16 36.9	2.0
	25.0	18 54 14.71	32 1.13	23 33 13.3	1 35 24.9	8.24899	30	16 38.9	0.7
	25.5	19 26 15.84	31 13.01	−21 57 48.4	1 58 4.9	8.24929	25	16 39.6	0.6
	26.0	19 57 28.85	30 17.59	19 59 43.5	2 17 35.6	8.24904	78	16 39.0	1.8
	26.5	20 27 46.44	29 19.47	17 42 7.9	2 33 38.6	8.24826	127	16 37.2	2.9
	27.0	20 57 5.91	28 22.59	15 8 29.3	2 46 9.1	8.24699	170	16 34.3	3.9
	27.5	21 25 28.50		12 22 20.2		8.24529		16 30.4	

Mittlere Zeit Greenwich

Datum	Scheinbare Rektaszension		Scheinbare Deklination		log sin $p_☾$		Halbmesser	
Dez. 27.0	20ʰ 57ᵐ 5ˢ.91	28ᵐ 22ˢ.59	−15° 8′ 29″.3	2° 46′ 9″.1	8.24699	170	16′ 34″.3	3″.9
27.5	21 25 28.50	27 29.95	12 22 20.2	2 55 12.4	8.24529	207	16 30.4	4.7
28.0	21 52 58.45	26 43.67	9 27 7.8	3 1 1.1	8.24322	239	16 25.7	5.4
28.5	22 19 42.12	26 5.04	6 26 6.7	3 3 51.1	8.24083	263	16 20.3	5.9
29.0	22 45 47.16	25 34.73	3 22 15.6	3 3 59.7	8.23820	279	16 14.4	6.3
29.5	23 11 21.89	25 12.93	− 0 18 15.9	3 1 43.6	8.23541	289	16 8.1	6.4
30.0	23 36 34.82	24 59.46	+ 2 43 27.7	2 57 17.6	8.23252	295	16 1.7	6.5
30.5	0 1 34.28	24 53.87	5 40 45.3	2 50 53.9	8.22957	294	15 55.2	6.4
31.0	0 26 28.15	24 55.48	8 31 39.2	2 42 43.0	8.22663	289	15 48.8	6.3
31.5	0 51 23.63	25 3.42	11 14 22.2	2 32 52.7	8.22374	280	15 42.5	6.1
32.0	1 16 27.05		+13 47 14.9		8.22094		15 36.4	

Phasen des Mondes

Jan.	4	16ʰ 45ᵐ.4	Neumond
	11	15 37.6	Erstes Viertel
	19	20 29.0	Vollmond
	27	12 35.1	Letztes Viertel
Febr.	3	4 5.6	Neumond
	10	10 20.4	Erstes Viertel
	18	14 28.6	Vollmond
	25	21 23.8	Letztes Viertel
März	3	15 57.6	Neumond
	11	6 32.9	Erstes Viertel
	19	5 26.7	Vollmond
	26	4 22.4	Letztes Viertel
April	2	4 21.2	Neumond
	10	2 35.7	Erstes Viertel
	17	17 7.5	Vollmond
	24	10 38.3	Letztes Viertel
Mai	1	17 28.9	Neumond
	9	20 47.1	Erstes Viertel
	17	2 11.3	Vollmond
	23	17 16.4	Letztes Viertel
	31	7 37.3	Neumond
Juni	8	11 59.0	Erstes Viertel
	15	9 41.7	Vollmond
	22	1 16.3	Letztes Viertel
	29	22 43.4	Neumond
Juli	7	23ʰ 55ᵐ.0	Erstes Viertel
	14	16 40.0	Vollmond
	21	11 33.0	Letztes Viertel
	29	14 15.4	Neumond
Aug.	6	9 5.6	Erstes Viertel
	13	0 0.3	Vollmond
	20	0 52.8	Letztes Viertel
	28	5 24.7	Neumond
Sept.	4	16 26.5	Erstes Viertel
	11	8 30.9	Vollmond
	18	17 35.3	Letztes Viertel
	26	19 34.1	Neumond
Okt.	3	23 0.5	Erstes Viertel
	10	19 1.1	Vollmond
	18	13 8.7	Letztes Viertel
	26	8 37.0	Neumond
Nov.	2	5 50.6	Erstes Viertel
	9	8 18.0	Vollmond
	17	10 0.5	Letztes Viertel
	24	20 50.4	Neumond
Dez.	1	13 55.5	Erstes Viertel
	9	0 43.9	Vollmond
	17	6 6.4	Letztes Viertel
	24	8 31.2	Neumond
	31	0 7.2	Erstes Viertel

Tag		Obere Kulmination im Nullmeridian: AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	0^h Länge, $+50°$ Breite: Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
		h m s	s	° '	'	'	h m	m	h m	m	h m	m
Jan.	1	15 51 45	168	−25 3.8	− 7.0	60.6	21 7.7	2.63	17 11	3.5	0 20	1.3
	2	17 1 6	177	−26 51.6	− 1.9	61.1	22 12.9	2.78	18 31	3.1	0 58	1.9
	3	18 12 22	177	−26 29.4	+ 3.7	61.3	23 20.1	2.78	19 38	2.4	1 53	2.7
	4	—	—	—	—	—	—	—	20 28	1.7	3 5	3.3
	5	19 19 22	169	−23 57.2	+ 8.8	61.2	0 25.5	2.65	21 3	1.2	4 31	3.7
	6	20 24 32	156	−19 37.7	+12.6	60.7	1 26.5	2.43	21 28	0.9	6 1	3.7
	7	21 24 17	143	−14 5.1	+14.9	59.9	2 22.1	2.21	21 48	0.7	7 29	3.6
	8	22 19 10	132	− 7 53.7	+15.9	59.0	3 12.9	2.03	22 4	0.6	8 52	3.4
	9	23 10 24	125	− 1 31.2	+15.9	58.0	4 0.0	1.91	22 19	0.6	10 11	3.2
	10	23 59 26	121	+ 4 41.5	+15.1	57.0	4 45.0	1.85	22 34	0.6	11 26	3.1
	11	0 47 35	120	+10 29.5	+13.8	56.1	5 29.1	1.84	22 50	0.7	12 40	3.1
	12	1 35 59	122	+15 40.7	+12.1	55.4	6 13.4	1.87	23 9	0.9	13 53	3.0
	13	2 25 33	126	+20 4.6	+ 9.9	54.8	6 58.9	1.93	23 33	1.1	15 4	2.9
	14	3 16 50	130	+23 31.2	+ 7.3	54.4	7 46.1	2.01	—	—	16 13	2.8
	15	4 9 53	135	+25 51.0	+ 4.3	54.1	8 35.1	2.08	0 3	1.4	17 17	2.5
	16	5 4 18	137	+26 56.1	+ 1.1	54.0	9 25.5	2.12	0 42	1.8	18 12	2.1
	17	5 59 12	137	+26 42.2	− 2.2	54.0	10 16.3	2.11	1 30	2.2	18 57	1.7
	18	6 53 29	134	+25 9.7	− 5.4	54.2	11 6.5	2.07	2 29	2.6	19 33	1.3
	19	7 46 16	130	+22 24.1	− 8.3	54.4	11 55.2	1.99	3 35	2.9	20 1	1.0
	20	8 39 15	124	+18 35.0	−10.7	54.7	12 41.9	1.90	4 46	3.0	20 22	0.8
	21	9 28 2	120	+13 54.4	−12.6	55.0	13 26.6	1.83	5 57	3.0	20 39	0.7
	22	10 15 21	117	+ 8 35.1	−13.9	55.5	14 9.9	1.78	7 9	3.0	20 55	0.6
	23	11 1 59	117	+ 2 49.8	−14.7	55.9	14 52.5	1.77	8 21	3.0	21 9	0.6
	24	11 48 56	119	− 3 8.3	−15.0	56.5	15 35.4	1.81	9 33	3.1	21 23	0.6
	25	12 37 24	124	− 9 5.3	−14.6	57.1	16 19.7	1.90	10 48	3.2	21 39	0.7
	26	13 28 38	133	−14 45.0	−13.5	57.8	17 6.9	2.04	12 5	3.3	21 57	0.8
	27	14 23 53	144	−19 47.5	−11.5	58.5	17 58.0	2.23	13 26	3.4	22 20	1.1
	28	15 24 0	157	−23 48.4	− 8.4	59.2	18 54.0	2.44	14 49	3.4	22 52	1.6
	29	16 28 56	167	−26 20.4	− 4.1	59.9	19 54.7	2.62	16 9	3.2	23 37	2.2
	30	17 37 13	173	−26 59.1	+ 1.0	60.4	20 58.9	2.71	17 20	2.7	—	—
	31	18 46 5	170	−25 32.9	+ 6.2	60.7	22 3.6	2.67	18 16	2.0	0 39	2.9
Febr.	1	19 52 35	161	−22 9.1	+10.6	60.7	23 6.1	2.52	18 57	1.5	1 56	3.5
	2	—	—	—	—	—	—	—	19 27	1.1	3 24	3.8
	3	20 54 54	150	−17 12.1	+13.9	60.4	0 4.3	2.33	19 50	0.8	4 54	3.7
	4	21 50 23	139	−11 14.1	+15.7	59.8	0 58.1	2.15	20 8	0.7	6 20	3.5
	5	22 44 23	131	− 4 46.6	+16.4	59.1	1 47.9	2.02	20 24	0.6	7 43	3.4
	6	23 35 43	126	+ 1 43.7	+16.0	58.2	2 35.2	1.93	20 39	0.6	9 3	3.3
	7	0 25 35	124	+ 7 55.9	+14.9	57.2	3 21.0	1.89	20 55	0.7	10 20	3.2
	8	1 15 10	124	+13 34.1	+13.2	56.3	4 6.5	1.90	21 13	0.8	11 35	3.1
	9	2 5 23	127	+18 25.5	+11.0	55.6	4 52.6	1.95	21 35	1.0	12 48	3.0

Obere Kulmination im Nullmeridian								0h Länge, + 50° Breite			
Tag	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 9	2 5 23	127	+18 25.5	+11.0	55.6	4 52.6	1.95	21 35	1.0	12 48	3.0
10	2 56 51	131	+22 19.7	+ 8.4	54.9	5 40.1	2.01	22 3	1.3	13 59	2.9
11	3 49 49	134	+25 7.4	+ 5.5	54.5	6 29.0	2.06	22 38	1.7	15 6	2.6
12	4 44 3	137	+26 41.3	+ 2.3	54.2	7 19.1	2.11	23 23	2.1	16 5	2.3
13	5 38 54	137	+26 56.7	— 1.0	54.1	8 9.9	2.12	—	—	16 54	1.8
14	6 33 27	135	+25 53.0	— 4.3	54.2	9 0.4	2.08	0 18	2.5	17 33	1.4
15	7 26 51	131	+23 33.8	— 7.3	54.4	9 49.7	2.02	1 22	2.8	18 3	1.1
16	8 18 32	127	+20 6.6	— 9.9	54.7	10 37.3	1.94	2 31	2.9	18 27	0.9
17	9 8 23	123	+15 42.0	—12.1	55.1	11 23.0	1.87	3 43	3.0	18 46	0.7
18	9 56 44	119	+10 32.0	—13.7	55.6	12 7.3	1.82	4 56	3.0	19 2	0.6
19	10 46 18	118	+ 4 49.9	—14.7	56.1	12 50.7	1.80	6 9	3.0	19 17	0.6
20	11 33 46	119	— 1 10.4	—15.2	56.6	13 34.1	1.82	7 22	3.1	19 31	0.6
21	12 22 16	123	— 7 13.5	—15.0	57.1	14 18.5	1.89	8 37	3.2	19 46	0.7
22	13 12 55	130	—13 2.5	—14.0	57.6	15 5.0	2.00	9 54	3.3	20 4	0.8
23	14 6 49	140	—18 17.9	—12.1	58.1	15 54.8	2.16	11 13	3.4	20 26	1.0
24	15 4 45	150	—22 37.4	— 9.3	58.5	16 48.6	2.33	12 35	3.4	20 54	1.4
25	16 6 52	160	—25 37.1	— 5.5	58.9	17 46.6	2.49	13 55	3.2	21 33	1.9
26	17 12 15	166	—26 55.2	— 0.9	59.3	18 47.8	2.59	15 8	2.8	22 27	2.6
27	18 18 52	166	—26 18.4	+ 4.0	59.6	19 50.3	2.59	16 8	2.2	23 36	3.2
28	19 24 15	160	—23 47.4	+ 8.5	59.8	20 51.6	2.50	16 53	1.6	—	—
29	20 26 33	151	—19 37.6	+12.1	59.8	21 49.9	2.35	17 26	1.2	0 57	3.5
März 1	21 25 2	142	—14 13.7	+14.7	59.6	22 44.3	2.19	17 51	0.9	2 24	3.7
2	22 20 0	134	— 8 3.7	+16.0	59.2	23 35.2	2.06	18 11	0.8	3 51	3.6
3	—	—	—	—	—	—	—	18 28	0.7	5 14	3.4
4	23 10 8	129	— 1 34.4	+16.3	58.6	0 23.5	1.97	18 44	0.7	6 34	3.3
5	0 0 59	126	+ 4 50.6	+15.7	57.9	1 10.3	1.93	19 0	0.7	7 53	3.3
6	0 51 21	126	+10 51.3	+14.3	57.1	1 56.6	1.93	19 17	0.8	9 11	3.2
7	1 42 10	128	+16 11.4	+12.3	56.3	2 43.4	1.97	19 38	1.0	10 27	3.1
8	2 34 4	131	+20 37.1	+ 9.8	55.6	3 31.2	2.02	20 4	1.2	11 41	3.0
9	3 27 19	135	+23 57.5	+ 6.9	55.0	4 20.4	2.08	20 36	1.5	12 51	2.8
10	4 21 45	137	+26 4.1	+ 3.7	54.6	5 10.7	2.12	21 17	1.9	13 54	2.4
11	5 16 48	138	+26 52.1	+ 0.3	54.3	6 1.7	2.12	22 8	2.3	14 47	2.0
12	6 11 36	136	+26 20.3	— 3.0	54.2	6 52.4	2.10	23 9	2.7	15 30	1.6
13	7 5 22	133	+24 31.8	— 6.0	54.3	7 42.1	2.04	—	—	16 3	1.2
14	7 57 31	128	+21 33.1	— 8.8	54.6	8 30.1	1.97	0 16	2.9	16 29	1.0
15	8 47 56	124	+17 33.0	—11.1	55.0	9 16.5	1.90	1 26	3.0	16 50	0.8
16	9 36 51	121	+12 41.9	—13.0	55.5	10 1.3	1.84	2 38	3.0	17 8	0.7
17	10 24 51	120	+ 7 11.5	—14.4	56.1	10 45.2	1.82	3 51	3.1	17 23	0.6
18	11 12 47	120	+ 1 14.7	—15.2	56.8	11 29.1	1.84	5 5	3.1	17 38	0.6
19	12 3 46	124	— 4 53.4	—15.3	57.4	12 13.9	1.90	6 20	3.2	17 54	0.7

Tag	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
	Obere Kulmination im Nullmeridian							0h Länge, +50° Breite			
	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 19	12 3 46	124	− 4 53.4	−15.3	57.4	12 13.9	1.90	6 20	3.2	17 54	0.7
20	12 54 37	131	−10 55.3	−14.7	57.9	13 0.6	2.00	7 38	3.3	18 11	0.8
21	13 48 30	139	−16 30.1	−13.1	58.4	13 50.4	2.15	8 58	3.4	18 31	1.0
22	14 46 12	149	−21 14.2	−10.4	58.8	14 44.0	2.32	10 21	3.5	18 58	1.3
23	15 47 52	159	−24 42.4	− 6.8	59.0	15 41.5	2.47	11 43	3.3	19 34	1.8
24	16 52 39	164	−26 32.5	− 2.3	59.2	16 42.1	2.57	12 59	2.9	20 23	2.4
25	17 58 39	165	−26 30.6	+ 2.5	59.2	17 44.0	2.57	14 3	2.4	21 27	3.0
26	19 3 32	159	−24 36.7	+ 6.9	59.2	18 44.8	2.48	14 52	1.8	22 44	3.4
27	20 5 27	150	−21 3.6	+10.7	59.1	19 42.7	2.34	15 28	1.3	—	—
28	21 3 38	141	−16 13.1	+13.4	58.9	20 36.8	2.18	15 54	1.0	0 7	3.6
29	21 58 20	133	−10 29.7	+15.1	58.7	21 27.5	2.05	16 15	0.8	1 31	3.5
30	22 50 23	128	− 4 17.1	+15.8	58.3	22 15.5	1.96	16 33	0.7	2 53	3.4
31	23 40 52	125	+ 2 2.7	+15.7	57.8	23 1.9	1.92	16 49	0.7	4 13	3.3
April 1	0 30 53	125	+ 8 10.0	+14.8	57.2	23 47.8	1.92	17 5	0.7	5 31	3.2
2	—	—	—	—	—	—	—	17 22	0.7	6 48	3.2
3	1 19 10	127	+13 47.0	+13.2	56.6	0 34.3	1.95	17 41	0.9	8 4	3.1
4	2 10 48	131	+18 37.7	+10.9	56.0	1 21.8	2.01	18 4	1.1	9 19	3.1
5	3 3 56	135	+22 28.2	+ 8.2	55.4	2 10.9	2.08	18 34	1.4	10 32	2.9
6	3 58 27	138	+25 7.5	+ 5.0	54.9	3 1.3	2.12	19 12	1.8	11 39	2.6
7	4 53 47	139	+26 28.6	+ 1.7	54.5	3 52.6	2.14	20 0	2.2	12 37	2.2
8	5 49 2	137	+26 29.1	− 1.6	54.3	4 43.8	2.12	20 57	2.5	13 24	1.7
9	6 43 16	134	+25 11.5	− 4.8	54.2	5 33.9	2.06	22 1	2.8	14 1	1.4
10	7 35 49	129	+22 42.1	− 7.6	54.4	6 22.4	1.98	23 10	2.9	14 30	1.1
11	8 26 28	124	+19 9.6	−10.0	54.7	7 8.9	1.90	—	—	14 53	0.9
12	9 15 26	121	+14 43.6	−12.1	55.1	7 53.8	1.84	0 20	3.0	15 12	0.7
13	10 3 17	119	+ 9 34.1	−13.6	55.8	8 37.6	1.81	1 32	3.0	15 28	0.6
14	10 50 51	119	+ 3 52.1	−14.8	56.5	9 21.1	1.82	2 44	3.0	15 43	0.6
15	11 39 11	123	− 2 9.9	−15.3	57.3	10 5.4	1.87	3 58	3.1	15 58	0.7
16	12 29 24	129	− 8 16.7	−15.1	58.0	10 51.5	1.98	5 15	3.3	16 15	0.7
17	13 22 39	138	−14 8.3	−14.0	58.7	11 40.8	2.13	6 35	3.4	16 34	0.9
18	14 22 20	149	−19 20.4	−11.8	59.3	12 34.0	2.31	7 58	3.5	16 59	1.2
19	15 24 10	160	−23 24.9	− 8.4	59.7	13 31.7	2.49	9 23	3.5	17 33	1.6
20	16 29 47	167	−25 54.5	− 3.9	59.8	14 33.2	2.62	10 44	3.2	18 19	2.2
21	17 37 13	169	−26 30.2	+ 1.0	59.8	15 36.5	2.64	11 54	2.6	19 20	2.8
22	18 43 47	163	−25 8.3	+ 5.7	59.6	16 39.0	2.55	12 49	2.0	20 34	3.3
23	19 47 12	153	−22 1.5	+ 9.7	59.3	17 38.3	2.39	13 29	1.4	21 56	3.5
24	20 46 23	143	−17 32.7	+12.5	58.9	18 33.4	2.21	13 58	1.0	23 20	3.4
25	21 41 30	133	−12 7.6	+14.4	58.5	19 24.5	2.06	14 20	0.8	—	—
26	22 33 25	127	− 6 9.9	+15.3	58.0	20 12.4	1.95	14 38	0.7	0 41	3.3
27	23 23 21	123	− 0 0.2	+15.4	57.5	20 58.3	1.89	14 55	0.7	2 0	3.2

Obere Kulmination im Nullmeridian								0h Länge, + 50° Breite			
Tag	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
	h m s	s	° '	'	'	h m	m	h m	m	h m	m
April 27	23 23 21	123	— 0 0.2	+15.4	57.5	20 58.3	1.89	14 55	0.7	2 0	3.2
28	0 12 30	123	+ 6 3.5	+14.8	57.0	21 43.4	1.88	15 11	0.7	3 17	3.2
29	1 1 56	125	+11 44.8	+13.5	56.5	22 28.7	1.91	15 27	0.7	4 32	3.1
30	1 52 32	128	+16 48.3	+11.6	55.9	23 15.2	1.97	15 45	0.8	5 47	3.1
Mai 1	—	—	—	—	—	—	—	16 7	1.0	7 2	3.1
2	2 42 33	133	+20 59.4	+ 9.2	55.5	0 3.4	2.05	16 34	1.3	8 15	3.0
3	3 36 29	137	+24 5.1	+ 6.2	55.0	0 53.3	2.11	17 9	1.6	9 24	2.8
4	4 31 40	139	+25 55.8	+ 3.0	54.6	1 44.4	2.14	17 53	2.0	10 26	2.4
5	5 27 12	138	+26 26.3	— 0.4	54.3	2 35.8	2.13	18 47	2.4	11 17	1.9
6	6 21 58	135	+25 37.2	— 3.6	54.2	3 26.5	2.08	19 49	2.7	11 58	1.5
7	7 15 6	130	+23 34.3	— 6.5	54.1	4 15.5	2.00	20 56	2.8	12 29	1.1
8	8 6 8	125	+20 26.5	— 9.0	54.3	5 2.5	1.91	22 5	2.9	12 54	0.9
9	8 55 8	120	+16 23.9	—11.1	54.6	5 47.4	1.83	23 15	2.9	13 14	0.8
10	9 42 36	117	+11 36.7	—12.8	55.1	6 30.8	1.79	—	—	13 31	0.7
11	10 29 20	117	+ 6 14.7	—14.0	55.8	7 13.5	1.78	0 25	2.9	13 47	0.6
12	11 16 21	119	+ 0 28.2	—14.8	56.5	7 56.4	1.81	1 36	3.0	14 2	0.6
13	12 4 51	124	— 5 30.6	—15.0	57.4	8 40.9	1.90	2 50	3.2	14 18	0.7
14	12 56 7	133	—11 26.3	—14.5	58.4	9 28.1	2.04	4 8	3.3	14 36	0.8
15	13 51 25	144	—16 57.7	—12.9	59.2	10 19.4	2.24	5 30	3.5	14 58	1.0
16	14 51 40	157	—21 37.5	—10.2	59.9	11 15.6	2.45	6 55	3.5	15 28	1.5
17	15 59 26	169	—24 54.7	— 6.1	60.4	12 16.7	2.64	8 19	3.4	16 9	2.0
18	17 8 13	174	—26 21.3	— 1.0	60.7	13 21.4	2.73	9 37	3.0	17 5	2.7
19	18 17 35	171	—25 43.4	+ 4.2	60.6	14 26.6	2.68	10 40	2.3	18 17	3.3
20	19 24 25	162	—23 7.4	+ 8.7	60.3	15 29.4	2.53	11 26	1.6	19 40	3.6
21	20 26 46	150	—18 56.5	+12.0	59.8	16 27.7	2.33	12 0	1.2	21 6	3.6
22	21 24 16	138	—13 40.2	+14.1	59.1	17 21.1	2.13	12 25	0.9	22 30	3.4
23	22 17 41	129	— 7 46.6	+15.2	58.4	18 10.5	1.99	12 45	0.8	23 50	3.3
24	23 8 15	124	— 1 38.6	+15.4	57.7	18 57.1	1.90	13 2	0.7	—	—
25	23 57 19	122	+ 4 25.2	+14.9	57.0	19 42.1	1.86	13 18	0.7	1 7	3.2
26	0 46 7	123	+10 9.6	+13.7	56.4	20 26.8	1.87	13 34	0.7	2 22	3.1
27	1 35 42	126	+15 20.4	+12.1	55.8	21 12.3	1.92	13 51	0.8	3 36	3.1
28	2 26 48	130	+19 44.5	+ 9.8	55.4	21 59.3	2.00	14 12	1.0	4 50	3.1
29	3 19 42	134	+23 9.1	+ 7.1	54.9	22 48.1	2.07	14 37	1.2	6 3	3.0
30	4 14 13	138	+25 23.3	+ 4.0	54.6	23 38.5	2.13	15 9	1.5	7 13	2.8
31	—	—	—	—	—	—	—	15 50	1.9	8 16	2.5
Juni 1	5 7 15	138	+26 19.9	+ 0.7	54.3	0 29.8	2.14	16 41	2.3	9 11	2.1
2	6 2 20	136	+25 56.7	— 2.6	54.1	1 20.8	2.10	17 40	2.6	9 56	1.7
3	6 56 5	132	+24 17.5	— 5.6	54.0	2 10.4	2.03	18 45	2.8	10 31	1.3
4	7 47 46	126	+21 30.7	— 8.2	54.0	2 58.0	1.94	19 53	2.9	10 57	1.0
5	8 37 11	121	+17 46.7	—10.4	54.2	3 43.3	1.84	21 2	2.9	11 18	0.8

Tag		Obere Kulmination im Nullmeridian: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
		h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni	5	8 37 11	121	+17 46.7	−10.4	54.2	3 43.3	1.84	21 2	2.9	11 18	0.8
	6	9 24 39	117	+13 16.9	−12.1	54.5	4 26.7	1.78	22 11	2.9	11 36	0.7
	7	10 10 49	115	+ 8 11.6	−13.3	55.0	5 8.8	1.74	23 20	2.9	11 52	0.6
	8	10 56 38	115	+ 2 40.8	−14.2	55.6	5 50.6	1.75	—	—	12 7	0.6
	9	11 43 13	118	− 3 5.1	−14.6	56.4	6 33.1	1.81	0 31	3.0	12 22	0.6
	10	12 31 51	125	− 8 54.1	−14.4	57.3	7 17.7	1.92	1 45	3.1	12 38	0.7
	11	13 23 53	135	−14 30.1	−13.4	58.3	8 5.7	2.09	3 2	3.3	12 58	0.9
	12	14 20 38	149	−19 31.3	−11.4	59.3	8 58.4	2.31	4 24	3.5	13 23	1.2
	13	15 22 52	162	−23 29.3	− 8.2	60.2	9 56.6	2.54	5 49	3.5	13 57	1.7
	14	16 30 12	173	−25 52.5	− 3.6	60.8	10 59.9	2.72	7 11	3.2	14 46	2.4
	15	17 43 9	177	−26 15.3	+ 1.8	61.2	12 6.1	2.77	8 22	2.6	15 52	3.1
	16	18 53 7	172	−24 29.6	+ 6.9	61.2	13 12.0	2.69	9 17	2.0	17 13	3.6
	17	19 59 37	160	−20 50.0	+11.1	60.9	14 14.4	2.50	9 57	1.4	18 41	3.7
	18	21 1 9	147	−15 46.3	+13.9	60.3	15 11.9	2.29	10 27	1.1	20 9	3.6
	19	21 57 51	136	− 9 51.9	+15.4	59.5	16 4.6	2.11	10 49	0.8	21 34	3.4
	20	22 50 46	129	− 3 35.9	+15.8	58.7	16 53.4	1.98	11 7	0.7	22 54	3.3
	21	23 41 16	124	+ 2 38.8	+15.3	57.8	17 39.9	1.90	11 24	0.7	—	—
	22	0 30 41	123	+ 8 34.9	+14.2	56.9	18 25.2	1.88	11 40	0.7	0 11	3.2
	23	1 20 14	125	+13 58.1	+12.6	56.2	19 10.7	1.91	11 57	0.8	1 27	3.1
	24	2 10 47	128	+18 36.2	+10.5	55.5	19 57.2	1.97	12 17	0.9	2 41	3.1
	25	3 2 55	132	+22 17.8	+ 7.9	55.0	20 45.2	2.04	12 40	1.1	3 54	3.0
	26	3 56 39	136	+24 52.4	+ 4.9	54.6	21 34.9	2.10	13 10	1.4	5 4	2.8
	27	4 51 30	138	+26 12.1	+ 1.7	54.3	22 25.6	2.13	13 48	1.8	6 9	2.6
	28	5 46 32	137	+26 13.1	− 1.6	54.1	23 16.6	2.11	14 35	2.2	7 7	2.2
	29	—	—	—	—	—	—	—	15 31	2.5	7 55	1.8
	30	6 38 25	133	+24 56.8	− 4.7	54.0	0 6.6	2.05	16 35	2.8	8 32	1.4
Juli	1	7 30 49	128	+22 29.8	− 7.5	53.9	0 54.9	1.97	17 43	2.9	9 1	1.1
	2	8 20 58	123	+19 2.1	− 9.8	54.0	1 41.0	1.87	18 52	2.9	9 24	0.8
	3	9 8 58	118	+14 45.5	−11.6	54.2	2 24.9	1.79	20 1	2.8	9 42	0.7
	4	9 55 16	114	+ 9 51.3	−12.9	54.5	3 7.1	1.74	21 9	2.8	9 58	0.6
	5	10 40 39	113	+ 4 30.6	−13.8	55.0	3 48.5	1.72	22 18	2.9	10 13	0.6
	6	11 26 6	115	− 1 6.1	−14.2	55.6	4 29.9	1.74	23 29	3.0	10 28	0.6
	7	12 12 46	119	− 6 47.8	−14.2	56.3	5 12.5	1.82	—	—	10 43	0.7
	8	13 1 55	127	−12 21.5	−13.5	57.1	5 57.6	1.95	0 43	3.2	11 0	0.8
	9	13 54 52	138	−17 30.2	−12.1	58.0	6 46.5	2.14	2 1	3.3	11 21	1.0
	10	14 52 46	152	−21 51.8	− 9.5	59.0	7 40.4	2.36	3 22	3.4	11 50	1.4
	11	15 56 5	165	−24 58.5	− 5.8	59.9	8 39.7	2.58	4 43	3.3	12 31	2.0
	12	17 3 58	174	−26 21.7	− 1.0	60.7	9 43.5	2.72	5 59	2.9	13 27	2.7
	13	18 14 0	175	−25 41.4	+ 4.3	61.2	10 49.4	2.74	7 2	2.3	14 41	3.4
	14	19 22 56	168	−22 56.3	+ 9.3	61.4	11 54.2	2.64	7 50	1.7	16 7	3.7

Tag	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
	Obere Kulmination im Nullmeridian							0h Länge, +50° Breite			
	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juli 14	19 22 56	168	−22 56.3	+ 9.3	61.4	11 54.2	2.64	7 50	1.7	16 7	3.7
15	20 30 38	157	−18 26.2	+13.0	61.2	12 55.3	2.45	8 24	1.2	17 38	3.8
16	21 31 9	146	−12 43.3	+15.3	60.7	13 51.7	2.26	8 50	1.0	19 7	3.6
17	22 27 23	136	− 6 21.6	+16.3	59.9	14 43.9	2.10	9 11	0.8	20 32	3.5
18	23 20 30	130	+ 0 9.2	+16.1	59.0	15 33.0	2.00	9 29	0.7	21 53	3.3
19	0 11 47	127	+ 6 26.1	+15.2	58.0	16 20.2	1.94	9 46	0.7	23 11	3.2
20	1 2 28	127	+12 11.7	+13.5	57.1	17 6.8	1.94	10 3	0.7	—	—
21	1 53 34	129	+17 12.1	+11.4	56.2	17 53.8	1.98	10 22	0.8	0 28	3.2
22	2 45 45	132	+21 15.9	+ 8.8	55.5	18 41.9	2.03	10 44	1.0	1 43	3.1
23	3 39 16	135	+24 13.5	+ 5.9	54.9	19 31.4	2.09	11 12	1.3	2 55	2.9
24	4 33 53	137	+25 57.3	+ 2.7	54.4	20 21.9	2.12	11 47	1.6	4 2	2.7
25	5 28 52	137	+26 23.1	− 0.6	54.2	21 12.8	2.11	12 31	2.0	5 2	2.3
26	6 23 17	135	+25 30.8	− 3.7	54.0	22 3.1	2.07	13 25	2.4	5 53	1.9
27	7 16 14	130	+23 25.5	− 6.6	54.0	22 52.0	2.00	14 27	2.7	6 34	1.5
28	8 7 8	125	+20 15.7	− 9.1	54.0	23 38.9	1.91	15 33	2.8	7 5	1.2
29	—	—	—	—	—	—	—	16 42	2.9	7 30	0.9
30	8 53 47	120	+16 12.5	−11.1	54.2	0 23.6	1.82	17 51	2.9	7 50	0.7
31	9 40 45	116	+11 27.7	−12.6	54.4	1 6.5	1.76	19 0	2.9	8 6	0.6
Aug. 1	10 26 30	113	+ 6 13.1	−13.6	54.8	1 48.2	1.72	20 9	2.9	8 21	0.6
2	11 11 50	114	+ 0 40.1	−14.1	55.2	2 29.5	1.73	21 19	3.0	8 35	0.6
3	11 57 45	116	− 4 59.5	−14.1	55.7	3 11.4	1.77	22 31	3.1	8 40	0.7
4	12 45 23	122	−10 33.1	−13.6	56.3	3 55.0	1.87	23 46	3.2	9 7	0.7
5	13 35 54	131	−15 46.0	−12.4	57.0	4 41.4	2.01	—	—	9 26	0.9
6	14 30 24	142	−20 19.9	−10.3	57.8	5 31.9	2.20	1 4	3.3	9 51	1.2
7	15 29 38	154	−23 52.4	− 7.2	58.6	6 27.1	2.40	2 23	3.3	10 25	1.7
8	16 33 30	165	−25 58.4	− 3.1	59.4	7 26.9	2.57	3 39	3.0	11 12	2.3
9	17 40 40	170	−26 15.8	+ 1.7	60.2	8 30.0	2.66	4 46	2.5	12 16	3.0
10	18 48 41	169	−24 33.4	+ 6.7	60.7	9 33.9	2.64	5 40	1.9	13 35	3.5
11	19 54 53	162	−20 57.5	+11.1	61.0	10 35.9	2.52	6 20	1.4	15 2	3.7
12	20 57 37	152	−15 50.4	+14.3	61.0	11 34.5	2.36	6 49	1.1	16 32	3.7
13	21 58 48	143	− 9 42.9	+16.1	60.7	12 29.2	2.21	7 12	0.9	18 0	3.6
14	22 54 20	136	− 3 7.1	+16.7	60.0	13 20.7	2.09	7 32	0.8	19 25	3.5
15	23 47 42	132	+ 3 28.4	+16.1	59.2	14 10.0	2.03	7 50	0.7	20 47	3.4
16	0 40 3	130	+ 9 40.4	+14.7	58.2	14 58.3	2.00	8 7	0.7	22 7	3.3
17	1 32 23	131	+15 10.7	+12.7	57.3	15 46.5	2.02	8 26	0.8	23 25	3.2
18	2 25 25	134	+19 45.1	+10.1	56.4	16 35.5	2.06	8 47	1.0	—	—
19	3 19 30	136	+23 12.7	+ 7.1	55.6	17 25.5	2.10	9 13	1.2	0 40	3.0
20	4 14 29	138	+25 25.6	+ 3.9	54.9	18 16.4	2.13	9 46	1.5	1 50	2.8
21	5 9 50	138	+26 19.5	+ 0.6	54.5	19 7.6	2.13	10 27	1.9	2 54	2.5
22	6 4 41	136	+25 54.3	− 2.7	54.2	19 58.4	2.09	11 18	2.3	3 49	2.1

Tag	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
	Obere Kulmination im Nullmeridian							0h Länge, + 50° Breite			
	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Aug. 22	6 4 41	136	+25 54.3	− 2.7	54.2	19 58.4	2.09	11 18	2.3	3 49	2.1
23	6 58 12	132	+24 13.9	− 5.7	54.1	20 47.9	2.03	12 17	2.6	4 33	1.6
24	7 49 51	126	+21 26.0	− 8.3	54.1	21 35.5	1.94	13 22	2.8	5 7	1.2
25	8 39 25	121	+17 40.4	−10.4	54.2	22 21.0	1.86	14 31	2.9	5 33	1.0
26	9 27 8	117	+13 8.4	−12.1	54.5	23 4.7	1.79	15 40	2.9	5 55	0.8
27	10 13 33	115	+ 8 1.4	−13.4	54.8	23 47.1	1.75	16 50	2.9	6 14	0.7
28	—	—	—	—	—	—	—	18 0	2.9	6 30	0.6
29	10 57 17	115	+ 2 31.3	−14.1	55.2	0 28.8	1.74	19 10	2.9	6 44	0.6
30	11 43 24	116	− 3 9.6	−14.2	55.7	1 10.9	1.77	20 21	3.0	6 59	0.6
31	12 30 47	121	− 8 48.0	−13.8	56.1	1 54.2	1.85	21 35	3.2	7 15	0.7
Sept. 1	13 20 28	128	−14 8.8	−12.8	56.7	2 39.9	1.97	22 52	3.2	7 33	0.8
2	14 13 26	137	−18 54.6	−10.9	57.2	3 28.8	2.12	—	—	7 56	1.1
3	15 10 23	148	−22 45.2	− 8.2	57.8	4 21.7	2.29	0 10	3.2	8 27	1.5
4	16 11 25	157	−25 18.8	− 4.5	58.5	5 18.7	2.45	1 26	3.0	9 8	2.0
5	17 15 40	163	−26 15.3	− 0.1	59.1	6 18.9	2.55	2 34	2.6	10 3	2.6
6	18 21 21	164	−25 22.1	+ 4.6	59.6	7 20.4	2.56	3 31	2.1	11 13	3.2
7	19 26 16	160	−22 39.1	+ 8.9	60.0	8 21.2	2.49	4 15	1.6	12 35	3.6
8	20 28 43	152	−18 19.7	+12.5	60.3	9 19.5	2.37	4 48	1.2	14 2	3.7
9	21 28 1	144	−12 47.0	+15.0	60.3	10 14.7	2.24	5 14	1.0	15 29	3.6
10	22 24 24	138	− 6 28.8	+16.3	60.1	11 7.0	2.13	5 35	0.8	16 54	3.5
11	23 20 57	134	+ 0 7.0	+16.5	59.6	11 57.2	2.06	5 53	0.7	18 17	3.4
12	0 14 10	133	+ 6 34.5	+15.6	59.0	12 46.3	2.04	6 10	0.7	19 39	3.4
13	1 7 19	133	+12 31.3	+13.9	58.2	13 35.4	2.05	6 29	0.8	20 59	3.3
14	2 1 8	136	+17 38.5	+11.6	57.3	14 25.1	2.09	6 50	0.9	22 17	3.2
15	2 56 0	138	+21 41.5	+ 8.6	56.4	15 15.9	2.14	7 14	1.1	23 32	3.0
16	3 51 47	140	+24 29.5	+ 5.3	55.7	16 7.6	2.17	7 45	1.5	—	—
17	4 47 58	140	+25 56.8	+ 1.9	55.0	16 59.7	2.17	8 24	1.8	0 41	2.7
18	5 43 40	138	+26 2.4	− 1.4	54.6	17 51.3	2.13	9 11	2.1	1 40	2.2
19	6 38 2	134	+24 50.2	− 4.5	54.3	18 41.6	2.06	10 7	2.5	2 28	1.8
20	7 30 28	128	+22 27.7	− 7.3	54.2	19 30.0	1.97	11 11	2.7	3 6	1.4
21	8 20 44	123	+19 4.4	− 9.6	54.3	20 16.2	1.88	12 18	2.8	3 36	1.1
22	9 9 4	119	+14 50.8	−11.5	54.5	21 0.5	1.81	13 27	2.9	4 0	0.9
23	9 55 59	116	+ 9 57.4	−12.9	54.8	21 43.4	1.76	14 36	2.9	4 19	0.7
24	10 42 12	115	+ 4 35.3	−13.9	55.3	22 25.5	1.75	15 46	2.9	4 36	0.7
25	11 28 36	117	− 1 3.9	−14.3	55.8	23 7.9	1.78	16 56	2.9	4 51	0.6
26	12 16 10	121	− 6 47.0	−14.2	56.3	23 51.4	1.85	18 8	3.0	5 6	0.6
27	—	—	—	—	—	—	—	19 22	3.1	5 22	0.7
28	13 3 40	128	−12 18.6	−13.3	56.9	0 36.9	1.96	20 39	3.3	5 40	0.8
29	13 56 22	136	−17 20.5	−11.7	57.4	1 25.6	2.10	21 58	3.3	6 2	1.0
30	14 52 47	146	−21 31.7	− 9.1	57.8	2 18.0	2.26	23 15	3.1	6 30	1.3

Obere Kulmination im Nullmeridian								0^h Länge, $+50°$ Breite			
Tag	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Sept. 30	14 52 47	146	−21 31.7	− 9.1	57.8	2 18.0	2.26	23 15	3.1	6 30	1.3
Okt. 1	15 53 1	155	−24 30.3	− 5.6	58.3	3 14.2	2.41	—	—	7 8	1.8
2	16 56 17	161	−25 56.3	− 1.4	58.7	4 13.4	2.51	0 26	2.8	7 59	2.4
3	18 0 56	162	−25 37.1	+ 3.0	59.0	5 13.9	2.52	1 26	2.2	9 4	3.0
4	19 4 53	157	−23 31.7	+ 7.3	59.2	6 13.7	2.45	2 13	1.7	10 21	3.3
5	20 6 31	150	−19 51.0	+10.9	59.4	7 11.2	2.34	2 49	1.3	11 43	3.5
6	21 5 7	143	−14 54.2	+13.6	59.5	8 5.7	2.21	3 16	1.0	13 7	3.5
7	22 0 54	136	− 9 4.6	+15.3	59.4	8 57.4	2.10	3 38	0.8	14 31	3.5
8	22 54 36	133	− 2 46.2	+16.0	59.2	9 47.0	2.04	3 57	0.7	15 53	3.4
9	23 47 15	131	+ 3 37.5	+15.8	58.9	10 35.5	2.02	4 14	0.7	17 13	3.3
10	0 39 53	132	+ 9 44.4	+14.6	58.3	11 24.1	2.04	4 32	0.8	18 33	3.3
11	1 35 35	135	+15 14.0	+12.7	57.7	12 13.5	2.08	4 52	0.9	19 52	3.3
12	2 30 22	139	+19 47.9	+10.0	57.0	13 4.2	2.14	5 15	1.0	21 9	3.1
13	3 26 29	142	+23 11.6	+ 6.9	56.3	13 56.2	2.19	5 43	1.3	22 22	2.9
14	4 23 24	143	+25 15.3	+ 3.4	55.6	14 49.0	2.20	6 19	1.7	23 26	2.5
15	5 20 9	141	+25 55.2	− 0.1	55.0	15 41.7	2.17	7 3	2.0	—	—
16	6 15 41	137	+25 13.7	− 3.3	54.6	16 33.1	2.11	7 57	2.4	0 20	2.0
17	7 9 12	131	+23 18.3	− 6.2	54.3	17 22.6	2.01	8 58	2.7	1 3	1.5
18	8 0 19	125	+20 19.1	− 8.6	54.2	18 9.7	1.91	10 4	2.8	1 35	1.2
19	8 49 11	120	+16 26.8	−10.6	54.3	18 54.5	1.83	11 12	2.8	2 0	1.0
20	9 36 19	116	+11 51.9	−12.2	54.6	19 37.6	1.77	12 20	2.9	2 22	0.8
21	10 22 28	115	+ 6 44.6	−13.3	55.1	20 19.7	1.74	13 29	2.9	2 40	0.7
22	11 8 34	116	+ 1 14.8	−14.1	55.6	21 1.7	1.76	14 39	2.9	2 56	0.6
23	11 55 39	120	− 4 26.0	−14.2	56.3	21 44.7	1.83	15 50	3.0	3 11	0.6
24	12 44 47	126	−10 4.0	−13.8	57.0	22 29.8	1.93	17 3	3.1	3 27	0.7
25	13 37 3	135	−15 21.8	−12.5	57.6	23 17.9	2.08	18 20	3.3	3 44	0.8
26	—	—	—	—	—	—	—	19 40	3.3	4 5	1.0
27	14 30 53	146	−19 57.7	−10.3	58.2	0 10.0	2.26	20 59	3.2	4 32	1.3
28	15 31 12	156	−23 27.4	− 7.0	58.7	1 6.2	2.42	22 14	2.9	5 7	1.7
29	16 35 3	163	−25 27.2	− 2.9	59.1	2 6.0	2.54	23 19	2.4	5 55	2.3
30	17 40 42	164	−25 40.8	+ 1.7	59.3	3 7.6	2.57	—	—	6 57	2.9
31	18 45 46	160	−24 4.8	+ 6.2	59.4	4 8.5	2.49	0 11	1.9	8 11	3.3
Nov. 1	19 48 18	152	−20 50.0	+ 9.9	59.3	5 6.9	2.36	0 50	1.4	9 33	3.5
2	20 47 21	143	−16 16.4	+12.7	59.2	6 1.8	2.22	1 19	1.1	10 56	3.4
3	21 43 0	135	−10 47.6	+14.5	59.0	6 53.4	2.10	1 42	0.9	12 17	3.4
4	22 36 5	130	− 4 46.6	+15.4	58.7	7 42.3	2.02	2 2	0.8	13 37	3.3
5	23 27 42	128	+ 1 25.5	+15.5	58.4	8 29.9	1.97	2 20	0.7	14 56	3.3
6	0 19 0	129	+ 7 29.2	+14.7	57.9	9 17.1	1.97	2 37	0.7	16 14	3.2
7	1 11 1	132	+13 5.8	+13.2	57.5	10 5.0	2.03	2 55	0.8	17 31	3.2
8	2 4 29	136	+17 57.5	+11.0	57.0	10 54.5	2.10	3 17	1.0	18 48	3.2

Tag	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
	Obere Kulmination im Nullmeridian							0h Länge, +50° Breite			
	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 8	2 4 29	136	+17 57.5	+11.0	57.0	10 54.5	2.10	3 17	1.0	18 48	3.2
9	3 1 58	140	+21 48.1	+ 8.1	56.4	11 45.6	2.16	3 43	1.2	20 2	3.0
10	3 58 38	143	+24 24.2	+ 4.8	55.8	12 38.1	2.21	4 15	1.5	21 10	2.7
11	4 55 49	143	+25 38.1	+ 1.3	55.3	13 31.3	2.21	4 56	1.9	22 9	2.2
12	5 52 21	139	+25 28.4	— 2.1	54.8	14 23.7	2.15	5 47	2.3	22 56	1.7
13	6 47 5	134	+24 0.7	— 5.1	54.5	15 14.4	2.06	6 46	2.6	23 33	1.4
14	7 39 21	127	+21 25.0	— 7.7	54.3	16 2.6	1.95	7 50	2.7	—	—
15	8 29 1	121	+17 53.0	— 9.8	54.2	16 48.2	1.85	8 57	2.8	0 2	1.1
16	9 16 28	116	+13 36.4	—11.5	54.3	17 31.6	1.77	10 5	2.8	0 25	0.9
17	10 2 25	114	+ 8 45.5	—12.7	54.6	18 13.5	1.73	11 13	2.8	0 44	0.7
18	10 47 47	114	+ 3 30.0	—13.5	55.1	18 54.8	1.72	12 21	2.8	1 0	0.6
19	11 33 38	116	— 2 0.6	—13.9	55.7	19 36.6	1.77	13 30	2.9	1 15	0.6
20	12 21 8	122	— 7 35.4	—13.9	56.5	20 20.1	1.86	14 41	3.0	1 30	0.7
21	13 11 31	130	—13 0.3	—13.1	57.3	21 6.3	2.00	15 55	3.2	1 47	0.7
22	14 5 53	142	—17 56.3	—11.4	58.2	21 56.6	2.19	17 13	3.3	2 6	0.9
23	15 4 59	154	—21 59.5	— 8.7	59.0	22 51.5	2.39	18 34	3.4	2 30	1.1
24	16 6 14	164	—24 42.7	— 4.8	59.6	23 51.1	2.57	19 53	3.2	3 1	1.5
25	—	—	—	—	—	—	—	21 5	2.8	3 45	2.1
26	17 13 10	169	—25 41.8	— 0.1	60.0	0 54.0	2.65	22 4	2.1	4 43	2.7
27	18 20 47	168	—24 44.8	+ 4.8	60.2	1 57.5	2.62	22 48	1.6	5 56	3.2
28	19 26 23	160	—21 57.5	+ 9.0	60.1	2 58.9	2.49	23 21	1.2	7 18	3.5
29	20 28 12	149	—17 40.2	+12.2	59.9	3 56.6	2.32	23 47	0.9	8 43	3.5
30	21 25 54	139	—12 20.1	+14.3	59.4	4 50.2	2.15	—	—	10 6	3.4
Dez. 1	22 20 6	132	— 6 23.9	+15.3	58.9	5 40.2	2.03	0 7	0.8	11 27	3.3
2	23 11 58	128	— 0 14.6	+15.4	58.4	6 28.0	1.96	0 25	0.7	12 46	3.2
3	0 2 45	127	+ 5 48.4	+14.8	57.8	7 14.7	1.94	0 43	0.7	14 3	3.2
4	0 53 40	128	+11 28.2	+13.4	57.2	8 1.6	1.97	1 1	0.8	15 19	3.1
5	1 45 40	132	+16 29.0	+11.5	56.7	8 49.5	2.03	1 21	0.9	16 34	3.1
6	2 39 19	136	+20 35.9	+ 9.0	56.2	9 39.1	2.10	1 45	1.1	17 48	3.0
7	3 34 43	140	+23 35.7	+ 5.9	55.7	10 30.4	2.17	2 14	1.4	18 58	2.7
8	4 31 17	142	+25 18.0	+ 2.6	55.3	11 22.9	2.20	2 51	1.7	19 59	2.3
9	5 30 15	141	+25 38.1	— 0.9	54.9	12 15.5	2.17	3 38	2.2	20 50	1.9
10	6 25 45	136	+24 38.0	— 4.1	54.5	13 6.9	2.10	4 34	2.5	21 31	1.5
11	7 19 6	130	+22 25.6	— 6.9	54.3	13 56.2	2.00	5 37	2.7	22 3	1.2
12	8 9 49	123	+19 12.4	— 9.1	54.1	14 42.9	1.89	6 44	2.8	22 27	0.9
13	8 58 0	118	+15 11.1	—10.9	54.1	15 27.1	1.79	7 52	2.8	22 47	0.8
14	9 44 10	114	+10 33.4	—12.2	54.2	16 9.2	1.72	9 0	2.8	23 4	0.7
15	10 29 7	112	+ 5 29.9	—13.0	54.5	16 50.1	1.69	10 7	2.8	23 20	0.6
16	11 13 51	112	+ 0 10.1	—13.5	54.9	17 30.8	1.70	11 14	2.8	23 35	0.6
17	11 59 29	116	— 5 16.4	—13.6	55.6	18 12.3	1.77	12 22	2.9	23 50	0.7

Tag	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
	Obere Kulmination im Nullmeridian							0h Länge, + 50° Breite			
	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Dez. 17	11 59 29	116	− 5 16.4	−13.6	55.6	18 12.3	1.77	12 22	2.9	23 50	0.7
18	12 47 14	123	−10 38.8	−13.2	56.4	18 56.0	1.88	13 33	3.0	—	—
19	13 38 22	133	−15 42.7	−12.0	57.3	19 43.0	2.05	14 47	3.2	0 7	0.8
20	14 34 1	145	−20 8.8	−10.0	58.2	20 34.5	2.25	16 5	3.3	0 28	1.0
21	15 34 50	158	−23 32.5	− 6.8	59.2	21 31.2	2.47	17 25	3.3	0 55	1.3
22	16 40 25	169	−25 26.3	− 2.5	60.1	22 32.6	2.64	18 41	3.0	1 32	1.8
23	17 48 54	172	−25 27.4	+ 2.5	60.7	23 37.0	2.70	19 47	2.5	2 23	2.5
24	—	—	—	—	—	—	—	20 40	1.9	3 30	3.1
25	18 54 50	169	−23 28.4	+ 7.4	61.0	0 41.3	2.64	21 19	1.4	4 50	3.5
26	20 0 38	160	−19 41.2	+11.4	61.0	1 43.0	2.49	21 48	1.1	6 17	3.7
27	21 2 19	149	−14 32.4	+14.1	60.7	2 40.5	2.31	22 11	0.9	7 45	3.6
28	21 59 50	139	− 8 33.8	+15.6	60.1	3 33.9	2.15	22 31	0.8	9 10	3.5
29	22 54 6	133	− 2 14.7	+15.9	59.4	4 24.1	2.04	22 49	0.7	10 32	3.4
30	23 46 20	129	+ 4 1.0	+15.3	58.6	5 12.2	1.98	23 7	[0.7]	11 52	[3.3]
31	0 37 48	129	+ 9 54.0	+14.0	57.7	5 59.6	1.98	23 26	[0.8]	13 9	[3.2]

Mond im Perigäum

		h
Jan.	4	2.3
Febr.	1	12.1
Febr.	29	8.7
März	26	1.2
April	20	23.6
Mai	18	20.0
Juni	16	2.6
Juli	14	12.3
Aug.	11	21.3
Sept.	9	1.4
Okt.	6	10.5
Okt.	31	6.8
Nov.	27	7.7
Dez.	25	12.5

Mond im Apogäum

		h
Jan.	16	17.1
Febr.	13	9.4
März	12	5.4
April	9	1.7
Mai	6	19.7
Juni	3	9.5
Juni	30	16.2
Juli	27	19.5
Aug.	24	5.0
Sept.	20	21.6
Okt.	18	17.2
Nov.	15	14.0
Dez.	13	8.8

Mittlere Zeit Greenwich	Mondbewegung			Lage des Mondäquators gegen den Erdäquator							
	☊	$L_☾$	$M_☾$	i	Diff.	Δ	Diff.	☊′	Diff.	Δ − ☋	Diff.
Jan. 1.5	309°.6910	239°.8983	334°.47	22°.501	11	126°.852	550	3°.087	22	357°.157	20
11.5	309.1614	11.6623	105.12	22.512	11	126.302	549	3.109	22	357.137	20
21.5	308.6319	143.4262	235.77	22.523	12	125.753	549	3.131	22	357.117	20
31.5	308.1024	275.1902	6.42	22.535	12	125.204	549	3.153	21	357.097	19
Febr. 10.5	307.5728	46.9542	137.07	22.547	11	124.655	549	3.174	21	357.078	19
20.5	307.0433	178.7181	267.72	22.558	12	124.106	548	3.195	21	357.059	19
März 1.5	306.5137	310.4821	38.37	22.570	12	123.558	548	3.216	20	357.040	19
11.5	305.9842	82.2461	169.02	22.582	12	123.010	548	3.236	20	357.021	18
21.5	305.4547	214.0101	299.67	22.594	12	122.462	548	3.256	19	357.003	18
31.5	304.9251	345.7740	70.32	22.606	12	121.914	547	3.275	20	356.985	17
April 10.5	304.3956	117.5380	200.97	22.618	12	121.367	547	3.295	19	356.968	18
20.5	303.8660	249.3020	331.62	22.630	12	120.820	547	3.314	18	356.950	17
30.5	303.3365	21.0659	102.27	22.642	13	120.273	546	3.332	19	356.933	17
Mai 10.5	302.8070	152.8299	232.92	22.655	12	119.727	546	3.351	18	356.916	16
20.5	302.2774	284.5939	3.57	22.667	12	119.181	546	3.369	18	356.900	16
30.5	301.7479	56.3579	134.22	22.679	13	118.635	545	3.387	17	356.884	16
Juni 9.5	301.2183	188.1218	264.87	22.692	12	118.090	545	3.404	17	356.868	16
19.5	300.6888	319.8858	35.52	22.704	13	117.545	545	3.421	17	356.852	15
29.5	300.1593	91.6498	166.17	22.717	12	117.000	544	3.438	17	356.837	15
Juli 9.5	299.6297	223.4137	296.82	22.729	13	116.456	544	3.455	16	356.822	15
19.5	299.1002	355.1777	67.47	22.742	13	115.912	544	3.471	16	356.807	14
29.5	298.5706	126.9417	198.12	22.755	13	115.368	544	3.487	15	356.793	15
Aug. 8.5	298.0411	258.7056	328.77	22.768	13	114.824	543	3.502	15	356.778	13
18.5	297.5116	30.4696	99.42	22.781	13	114.281	543	3.517	15	356.765	14
28.5	296.9820	162.2336	230.07	22.794	13	113.738	543	3.532	15	356.751	13
Sept. 7.5	296.4525	293.9976	0.72	22.807	13	113.195	543	3.547	14	356.738	13
17.5	295.9229	65.7615	131.37	22.820	13	112.652	542	3.561	14	356.725	13
27.5	295.3934	197.5255	262.02	22.833	13	112.110	542	3.575	14	356.712	12
Okt. 7.5	294.8639	329.2895	32.67	22.846	13	111.568	542	3.589	13	356.700	12
17.5	294.3343	101.0534	163.32	22.859	13	111.026	541	3.602	13	356.688	12
27.5	293.8048	232.8174	293.97	22.872	13	110.485	541	3.615	13	356.676	12
Nov. 6.5	293.2753	4.5814	64.62	22.885	14	109.944	541	3.628	12	356.664	11
16.5	292.7457	136.3454	195.27	22.899	13	109.403	540	3.640	12	356.653	11
26.5	292.2162	268.1093	325.92	22.912	13	108.863	540	3.652	11	356.642	10
Dez. 6.5	291.6866	39.8733	96.57	22.925	14	108.323	540	3.663	12	356.632	10
16.5	291.1571	171.6373	227.22	22.939	13	107.783	539	3.675	11	356.622	10
26.5	290.6276	303.4012	357.87	22.952	14	107.244	539	3.686	10	356.612	10
36.5	290.0980	75.1652	128.52	22.966		106.705		3.696		356.602	

Mittlere Zeit Greenwich	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
	s	s	s	"	"	"			
Jan. 12.5	−10.43	+0.51		−115.0	+11.4		8.20769	−422	
13.5	− 9.92	+0.57	+0.06	−103.6	+17.2	+5.8	8.20347	−301	+121
14.5	− 9.35	+0.73	+0.16	− 86.4	+21.4	+4.2	8.20046	−180	+121
15.5	− 8.62	+1.02	+0.29	− 65.0	+24.0	+2.6	8.19866	− 71	+109
16.5	− 7.60	+1.32	+0.30	− 41.0	+25.0	+1.0	8.19795	+ 24	+ 95
17.5	− 6.28	+1.60	+0.28	− 16.0	+24.3	−0.7	8.19819	+106	+ 82
18.5	− 4.68	+1.78	+0.18	+ 8.3	+22.7	−1.6	8.19925	+173	+ 67
19.5	− 2.90	+1.83	+0.05	+ 31.0	+20.6	−2.1	8.20098	+229	+ 56
20.5	− 1.07	+1.77	−0.06	+ 51.6	+18.4	−2.2	8.20327	+277	+ 48
21.5	+ 0.70	+1.60	−0.17	+ 70.0	+16.5	−1.9	8.20604	+321	+ 44
22.5	+ 2.30	+1.36	−0.24	+ 86.5	+14.9	−1.6	8.20925	+366	+ 45
23.5	+ 3.66	+1.06	−0.30	+101.4	+13.9	−1.0	8.21291	+411	+ 45
24.5	+ 4.72	+0.66	−0.40	+115.3	+13.1	−0.8	8.21702	+454	+ 43
25.5	+ 5.38	+0.14	−0.52	+128.4	+12.5	−0.6	8.22156	+491	+ 37
26.5	+ 5.52	−0.58	−0.72	+140.9	+10.9	−1.6	8.22647	+514	+ 23
27.5	+ 4.94			+151.8			8.23161		
Febr. 10.5	− 9.81	+0.60		− 93.7	+21.0		8.20438	−317	
11.5	− 9.21	+0.87	+0.27	− 72.7	+24.1	+3.1	8.20121	−181	+136
12.5	− 8.34	+1.23	+0.36	− 48.6	+25.4	+1.3	8.19940	− 49	+132
13.5	− 7.11	+1.56	+0.33	− 23.2	+25.2	−0.2	8.19891	+ 71	+120
14.5	− 5.55	+1.75	+0.19	+ 2.0	+23.8	−1.4	8.19962	+174	+103
15.5	− 3.80	+1.82	+0.07	+ 25.8	+21.8	−2.0	8.20136	+256	+ 82
16.5	− 1.98	+1.73	−0.09	+ 47.6	+20.0	−1.8	8.20392	+316	+ 60
17.5	− 0.25	+1.55	−0.18	+ 67.6	+18.2	−1.8	8.20708	+353	+ 37
18.5	+ 1.30	+1.29	−0.26	+ 85.8	+16.8	−1.4	8.21061	+372	+ 19
19.5	+ 2.59	+0.97	−0.32	+102.6	+15.6	−1.2	8.21433	+377	+ 5
20.5	+ 3.56	+0.58	−0.39	+118.2	+14.4	−1.2	8.21810	+372	− 5
21.5	+ 4.14	+0.10	−0.48	+132.6	+12.7	−1.7	8.22182	+364	− 8
22.5	+ 4.24	−0.49	−0.59	+145.3	+10.0	−2.7	8.22546	+352	− 12
23.5	+ 3.75	−1.19	−0.70	+155.3	+ 5.7	−4.3	8.22898	+335	− 17
24.5	+ 2.56	−1.88	−0.69	+161.0	− 1.3	−7.0	8.23233	+314	− 21
25.5	+ 0.68	−2.42	−0.54	+159.7	−10.8	−9.5	8.23547	+280	− 34
26.5	− 1.74			+148.9			8.23827		
März 11.5	− 7.48	+1.37		− 29.1	+25.3		8.20013	− 32	
12.5	− 6.11	+1.83	+0.46	− 3.8	+23.9	−1.4	8.19981	+105	+137
13.5	− 4.28	+1.92	+0.09	+ 20.1	+21.9	−2.0	8.20086	+230	+125
14.5	− 2.36	+1.81	−0.11	+ 42.0	+20.0	−1.9	8.20316	+334	+104
15.5	− 0.55	+1.61	−0.20	+ 62.0	+18.3	−1.7	8.20650	+411	+ 77
16.5	+ 1.06	+1.32	−0.29	+ 80.3	+17.3	−1.0	8.21061	+456	+ 45
17.5	+ 2.38	+0.94	−0.38	+ 97.6	+16.7	−0.6	8.21517	+469	+ 13
18.5	+ 3.32	+0.49	−0.45	+114.3	+16.1	−0.6	8.21986	+450	− 19
19.5	+ 3.81		−0.54	+130.4		−1.4	8.22436		− 45

Mittlere Zeit Greenwich	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
März 19.5	+ 3.81 s	−0.05 s	−0.54 s	+130.4″	+14.7″	− 1.4″	8.22436	+405	− 45
20.5	+ 3.76	−0.67	−0.62	+145.1	+12.1	− 2.6	8.22841	+342	− 63
21.5	+ 3.09	−1.39	−0.72	+157.2	+ 7.0	− 5.1	8.23183	+269	− 73
22.5	+ 1.70	−2.04	−0.65	+164.2	− 1.0	− 8.0	8.23452	+195	− 74
23.5	− 0.34	−2.48	−0.44	+163.2	−11.2	−10.2	8.23647	+125	− 70
24.5	− 2.82	−2.47	+0.01	+152.0	−22.3	−11.1	8.23772	+ 61	− 64
25.5	− 5.29	−1.99	+0.48	+129.7	−32.1	− 9.8	8.23833	+ 2	− 59
26.5	− 7.28			+ 97.6			8.23835		
April 9.5	− 4.54	+1.94		+ 16.3	+21.9		8.19996	+130	
10.5	− 2.60	+1.95	+0.01	+ 38.2	+19.2	− 2.7	8.20126	+265	+135
11.5	− 0.65	+1.80	−0.15	+ 57.4	+17.1	− 2.1	8.20391	+388	+123
12.5	+ 1.15	+1.53	−0.27	+ 74.5	+15.8	− 1.3	8.20779	+488	+100
13.5	+ 2.68	+1.14	−0.39	+ 90.3	+15.5	− 0.3	8.21267	+555	+ 67
14.5	+ 3.82	+0.67	−0.47	+105.8	+15.6	+ 0.1	8.21822	+580	+ 25
15.5	+ 4.49	+0.07	−0.60	+121.4	+15.6	0.0	8.22402	+564	− 16
16.5	+ 4.56	−0.66	−0.73	+137.0	+14.4	− 1.2	8.22966	+499	− 65
17.5	+ 3.90	−1.49	−0.83	+151.4	+10.6	− 3.8	8.23465	+399	−100
18.5	+ 2.41	−2.33	−0.84	+162.0	+ 2.9	− 7.7	8.23864	+271	−128
19.5	+ 0.08	−2.94	−0.61	+164.9	− 8.4	−11.3	8.24135	+132	−139
20.5	− 2.86	−3.01	−0.07	+156.5	−21.8	−13.4	8.24267	+ 1	−131
21.5	− 5.87	−2.44	+0.57	+134.7	−33.4	−11.6	8.24268	−117	−118
22.5	− 8.31	−1.52	+0.92	+101.3	−40.5	− 7.1	8.24151	−208	− 91
23.5	− 9.83	−0.61	+0.91	+ 60.8	−42.0	− 1.5	8.23943	−271	− 63
24.5	−10.44	+0.09	+0.70	+ 18.8	−39.0	+ 3.0	8.23672	−316	− 45
25.5	−10.35			− 20.2			8.23356		
Mai 9.5	+ 0.93	+1.79		+ 72.0	+14.2		8.20366	+410	
10.5	+ 2.72	+1.48	−0.31	+ 86.2	+13.1	− 1.1	8.20776	+524	+114
11.5	+ 4.20	+1.06	−0.42	+ 99.3	+13.0	− 0.1	8.21300	+614	+ 90
12.5	+ 5.26	+0.52	−0.54	+112.3	+13.5	+ 0.5	8.21914	+665	+ 51
13.5	+ 5.78	−0.20	−0.72	+125.8	+14.0	+ 0.5	8.22579	+668	+ 3
14.5	+ 5.58	−1.09	−0.89	+139.8	+12.7	− 1.3	8.23247	+614	− 54
15.5	+ 4.49	−2.13	−1.04	+152.5	+ 7.9	− 4.8	8.23861	+504	−110
16.5	+ 2.36	−3.08	−0.95	+160.4	− 2.0	− 9.9	8.24365	+348	−156
17.5	− 0.72	−3.57	−0.49	+158.4	−16.3	−14.3	8.24713	+162	−186
18.5	− 4.29	−3.33	+0.24	+142.1	−31.1	−14.8	8.24875	− 32	−194
19.5	− 7.62	−2.40	+0.93	+111.0	−41.7	−10.6	8.24843	−208	−176
20.5	−10.02	−1.25	+1.15	+ 69.3	−46.0	− 4.3	8.24635	−349	−141
21.5	−11.27	−0.33	+0.92	+ 23.3	−43.7	+ 2.3	8.24286	−446	− 97
22.5	−11.60	+0.23	+0.56	− 20.4	−36.8	+ 6.9	8.23840	−500	− 54
23.5	−11.37	+0.47	+0.24	− 57.2	−28.1	+ 8.7	8.23340	−516	− 16
24.5	−10.90	+0.49	+0.02	− 85.3	−18.8	+ 9.3	8.22824	−503	+ 13
25.5	−10.41			−104.1			8.22321		

Mittlere Zeit Greenwich	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			$\log \sin p_k$		
Juni 7.5	+ 3.81s	+1.44s		+ 98.1"	+10.5"		8.20716	+517	
8.5	+ 5.25	+1.01	−0.43s	+108.6	+10.5	0.0"	8.21233	+616	+ 99
9.5	+ 6.26	+0.43	−0.58	+119.1	+11.0	+ 0.5	8.21849	+688	+ 72
10.5	+ 6.69	−0.33	−0.76	+130.1	+11.2	+ 0.2	8.22537	+716	+ 28
11.5	+ 6.36	−1.32	−0.99	+141.3	+ 9.6	− 1.6	8.23253	+690	− 26
12.5	+ 5.04	−2.46	−1.14	+150.9	+ 3.9	− 5.7	8.23943	+604	− 86
13.5	+ 2.58	−3.41	−0.95	+154.8	− 7.3	−11.2	8.24547	+453	−151
14.5	− 0.83	−3.75	−0.34	+147.5	−22.7	−15.4	8.25000	+250	−203
15.5	− 4.58	−3.32	+0.43	+124.8	−37.7	−15.0	8.25250	+ 25	−225
16.5	− 7.90	−2.33	+0.99	+ 87.1	−47.0	− 9.3	8.25275	−198	−223
17.5	−10.23	−1.21	+1.12	+ 40.1	−48.6	− 1.6	8.25077	−391	−193
18.5	−11.44	−0.37	+0.84	− 8.5	−43.5	+ 5.1	8.24686	−536	−145
19.5	−11.81	+0.08	+0.45	− 52.0	−34.3	+ 9.2	8.24150	−621	− 85
20.5	−11.73	+0.25	+0.17	− 86.3	−23.4	+10.9	8.23529	−649	− 28
21.5	−11.48	+0.27	+0.02	−109.7	−12.5	+10.9	8.22880	−632	+ 17
22.5	−11.21	+0.20	−0.07	−122.2	− 2.4	+10.1	8.22248	−580	+ 52
23.5	−11.01			−124.6			8.21668		
Juli 7.5	+ 6.50	+0.31		+127.5	+ 8.1		8.21759	+640	
8.5	+ 6.81	−0.47	−0.78	+135.6	+ 7.8	− 0.3	8.22399	+688	+ 48
9.5	+ 6.34	−1.45	−0.98	+143.4	+ 5.1	− 2.7	8.23087	+690	+ 2
10.5	+ 4.89	−2.49	−1.04	+148.5	− 1.7	− 6.8	8.23777	+634	− 56
11.5	+ 2.40	−3.27	−0.78	+146.8	−13.3	−11.6	8.24411	+517	−117
12.5	− 0.87	−3.48	−0.21	+133.5	−27.8	−14.5	8.24928	+340	−177
13.5	− 4.35	−2.98	+0.50	+105.7	−41.0	−13.2	8.25268	+122	−218
14.5	− 7.33	−2.07	+0.91	+ 64.7	−48.3	− 7.3	8.25390	−117	−239
15.5	− 9.40	−1.19	+0.88	+ 16.4	−48.1	+ 0.2	8.25273	−342	−225
16.5	−10.59	−0.58	+0.61	− 31.7	−41.6	+ 6.5	8.24931	−523	−181
17.5	−11.17	−0.25	+0.33	− 73.3	−31.1	+10.5	8.24408	−648	−125
18.5	−11.42	−0.12	+0.13	−104.4	−19.0	+12.1	8.23760	−707	− 59
19.5	−11.54	−0.11	+0.01	−123.4	− 7.1	+11.9	8.23053	−707	0
20.5	−11.65	−0.12	−0.01	−130.5	+ 4.0	+11.1	8.22346	−659	+ 48
21.5	−11.77	−0.06	+0.06	−126.5	+13.5	+ 9.5	8.21687	−579	+ 80
22.5	−11.83	+0.10	+0.16	−113.0	+21.2	+ 7.7	8.21108	−478	+101
23.5	−11.73			− 91.8			8.20630		
Aug. 5.5	+ 5.91	−0.72		+142.5	+ 3.1		8.22337	+585	
6.5	+ 5.19	−1.57	−0.85	+145.6	− 1.1	− 4.2	8.22922	+600	+ 15
7.5	+ 3.62	−2.35	−0.78	+144.5	− 8.8	− 7.7	8.23522	+571	− 29
8.5	+ 1.27	−2.81	−0.46	+135.7	−19.9	−11.1	8.24093	+494	− 77
9.5	− 1.54	−2.76	+0.05	+115.8	−31.9	−12.0	8.24587	+363	−131
10.5	− 4.30	−2.28	+0.48	+ 83.9	−41.6	− 9.7	8.24950	+185	−178
11.5	− 6.58	−1.61	+0.67	+ 42.3	−46.1	− 4.5	8.25135	− 26	−211
12.5	− 8.19	−1.07	+0.54	− 3.8	−44.3	+ 1.8	8.25109	−242	−216
13.5	− 9.26		+0.34	− 48.1		+ 7.0	8.24867		−193

Mittlere Zeit Greenwich	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
	s	s	s	"	"	"			
Aug. 13.5	− 9.26	−0.73	+0.34	− 48.1	−37.3	+ 7.0	8.24867	−435	−193
14.5	− 9.99	−0.57	+0.16	− 85.4	−26.7	+10.6	8.24432	−586	−151
15.5	−10.56	−0.53	+0.04	−112.1	−14.3	+12.4	8.23846	−677	− 91
16.5	−11.09	−0.51	+0.02	−126.4	− 2.0	+12.3	8.23169	−707	− 30
17.5	−11.60	−0.43	+0.08	−128.4	+ 9.4	+11.4	8.22462	−680	+ 27
18.5	−12.03	−0.24	+0.19	−119.0	+19.0	+ 9.6	8.21782	−608	+ 72
19.5	−12.27	+0.13	+0.37	−100.0	+26.2	+ 7.2	8.21174	−508	+100
20.5	−12.14	+0.65	+0.52	− 73.8	+30.3	+ 4.1	8.20666	−389	+119
21.5	−11.49			− 43.5			8.20277		
Sept. 4.5	+ 1.14	−2.13		+136.5	−17.6		8.23373	+420	
5.5	− 0.99	−2.15	−0.02	+118.9	−26.9	− 9.3	8.23793	+371	− 49
6.5	− 3.14	−1.83	+0.32	+ 92.0	−35.2	− 8.3	8.24164	+285	− 86
7.5	− 4.97	−1.39	+0.44	+ 56.8	−40.3	− 5.1	8.24449	+161	−124
8.5	− 6.36	−1.00	+0.39	+ 16.5	−41.2	− 0.9	8.24610	+ 7	−154
9.5	− 7.36	−0.77	+0.23	− 24.7	−37.7	+ 3.5	8.24617	−162	−169
10.5	− 8.13	−0.70	+0.07	− 62.4	−30.4	+ 7.3	8.24455	−331	−169
11.5	− 8.83	−0.73	−0.03	− 92.8	−20.4	+10.0	8.24124	−475	−144
12.5	− 9.56	−0.78	−0.05	−113.2	− 8.5	+11.9	8.23649	−579	−104
13.5	−10.34	−0.79	−0.01	−121.7	+ 3.5	+12.0	8.23070	−632	− 53
14.5	−11.13	−0.64	+0.15	−118.2	+14.5	+11.0	8.22438	−633	− 1
15.5	−11.77	−0.30	+0.34	−103.7	+23.5	+ 9.0	8.21805	−585	+ 48
16.5	−12.07	+0.25	+0.55	− 80.2	+29.6	+ 6.1	8.21220	−500	+ 85
17.5	−11.82	+0.92	+0.67	− 50.6	+32.1	+ 2.5	8.20720	−386	+114
18.5	−10.90	+1.52	+0.60	− 18.5	+31.7	− 0.4	8.20334	−256	+130
19.5	− 9.38	+1.99	+0.47	+ 13.2	+28.8	− 2.9	8.20078	−120	+136
20.5	− 7.39			+ 42.0			8.19958		
Okt. 3.5	− 3.92	−1.46		+ 93.9	−33.7		8.23700	+172	
4.5	− 5.38	−0.97	+0.49	+ 60.2	−37.3	− 3.6	8.23872	+113	− 59
5.5	− 6.35	−0.59	+0.38	+ 22.9	−37.7	− 0.4	8.23985	+ 37	− 76
6.5	− 6.94	−0.40	+0.19	− 14.8	−34.9	+ 2.8	8.24022	− 55	− 92
7.5	− 7.34	−0.40	0.00	− 49.7	−29.4	+ 5.5	8.23967	−162	−107
8.5	− 7.74	−0.51	−0.11	− 79.1	−21.5	+ 7.9	8.23805	−274	−112
9.5	− 8.25	−0.68	−0.17	−100.6	−11.9	+ 9.6	8.23531	−379	−105
10.5	− 8.93	−0.83	−0.15	−112.5	− 1.2	+10.7	8.23152	−463	− 84
11.5	− 9.76	−0.84	−0.01	−113.7	+ 9.8	+11.0	8.22689	−517	− 54
12.5	−10.60	−0.64	+0.21	−103.9	+19.7	+ 9.9	8.22172	−533	− 16
13.5	−11.23	−0.16	+0.47	− 84.2	+27.3	+ 7.6	8.21639	−508	+ 25
14.5	−11.39	+0.50	+0.66	− 56.9	+31.7	+ 4.4	8.21131	−447	+ 61
15.5	−10.89	+1.21	+0.71	− 25.2	+32.4	+ 0.7	8.20684	−353	+ 94
16.5	− 9.68	+1.80	+0.59	+ 7.2	+30.1	− 2.3	8.20331	−234	+119
17.5	− 7.88	+2.16	+0.36	+ 37.3	+26.0	− 4.1	8.20097	−100	+134
18.5	− 5.72	+2.27	+0.11	+ 63.3	+21.2	− 4.8	8.19997	+ 41	+141
19.5	− 3.45			+ 84.5			8.20038		

Mittlere Zeit Greenwich		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
Nov.	2.5	− 8.00 s	−0.10 s		− 15.8″	−34.2″		8.23761	−162	
	3.5	− 8.10	−0.02	+0.08 s	− 50.0	−28.1	+6.1″	8.23599	−208	− 46
	4.5	− 8.12	−0.13	−0.11	− 78.1	−20.5	+7.6	8.23391	−254	− 46
	5.5	− 8.25	−0.33	−0.20	− 98.6	−11.8	+8.7	8.23137	−300	− 46
	6.5	− 8.58	−0.54	−0.21	−110.4	− 2.4	+9.4	8.22837	−346	− 46
	7.5	− 9.12	−0.69	−0.15	−112.8	+ 7.5	+9.9	8.22491	−386	− 40
	8.5	− 9.81	−0.65	+0.04	−105.3	+17.0	+9.5	8.22105	−412	− 26
	9.5	−10.46	−0.36	+0.29	− 88.3	+25.0	+8.0	8.21693	−421	− 9
	10.5	−10.82	+0.19	+0.55	− 63.3	+30.5	+5.5	8.21272	−404	+ 17
	11.5	−10.63	+0.88	+0.69	− 32.8	+32.7	+2.2	8.20868	−361	+ 43
	12.5	− 9.75	+1.53	+0.65	− 0.1	+31.5	−1.2	8.20507	−290	+ 71
	13.5	− 8.22	+2.03	+0.50	+ 31.4	+27.7	−3.8	8.20217	−193	+ 97
	14.5	− 6.19	+2.28	+0.25	+ 59.1	+22.6	−5.1	8.20024	− 75	+118
	15.5	− 3.91	+2.28	0.00	+ 81.7	+17.5	−5.1	8.19949	+ 58	+133
	16.5	− 1.63	+2.12	−0.16	+ 99.2	+13.0	−4.5	8.20007	+197	+139
	17.5	+ 0.49	+1.84	−0.28	+112.2	+ 9.6	−3.4	8.20204	+332	+135
	18.5	+ 2.33			+121.8			8.20536		
Dez.	1.5	− 9.37	+0.01		− 83.7	−21.7		8.23504	−408	
	2.5	− 9.36	−0.10	−0.11	−105.4	−12.0	+9.7	8.23096	−414	− 6
	3.5	− 9.46	−0.28	−0.18	−117.4	− 2.3	+9.7	8.22682	−407	+ 7
	4.5	− 9.74	−0.43	−0.15	−119.7	+ 7.2	+9.5	8.22275	−393	+ 14
	5.5	−10.17	−0.47	−0.04	−112.5	+16.3	+9.1	8.21882	−378	+ 15
	6.5	−10.64	−0.30	+0.17	− 96.2	+24.2	+7.9	8.21504	−360	+ 18
	7.5	−10.94	+0.12	+0.42	− 72.0	+30.0	+5.8	8.21144	−338	+ 22
	8.5	−10.82	+0.71	+0.59	− 42.0	+33.0	+3.0	8.20806	−308	+ 30
	9.5	−10.11	+1.35	+0.64	− 9.0	+32.7	−0.3	8.20498	−266	+ 42
	10.5	− 8.76	+1.88	+0.53	+ 23.7	+29.7	−3.0	8.20232	−209	+ 57
	11.5	− 6.88	+2.21	+0.33	+ 53.4	+24.8	−4.9	8.20023	−133	+ 76
	12.5	− 4.67	+2.31	+0.10	+ 78.2	+19.2	−5.6	8.19890	− 38	+ 95
	13.5	− 2.36	+2.24	−0.07	+ 97.4	+13.9	−5.3	8.19852	+ 73	+111
	14.5	− 0.12	+2.04	−0.20	+111.3	+ 9.4	−4.5	8.19925	+197	+124
	15.5	+ 1.92	+1.76	−0.28	+120.7	+ 6.3	−3.1	8.20122	+327	+130
	16.5	+ 3.68	+1.38	−0.38	+127.0	+ 4.4	−1.9	8.20449	+455	+128
	17.5	+ 5.06			+131.4			8.20904		

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Tag		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Jan.	1	19 25 8.05	7 2.61	−24 11 13.2	14 39.4	0.130887	3815	0 46.0
	2	19 32 10.66	7 0.87	23 56 33.8	16 13.7	0.127072	4105	0 49.1
	3	19 39 11.53	6 58.69	23 40 20.1	17 47.3	0.122967	4412	0 52.2
	4	19 46 10.22	6 56.02	23 22 32.8	19 20.4	0.118555	4735	0 55.2
	5	19 53 6.24	6 52.77	23 3 12.4	20 52.4	0.113820	5076	0 58.2
	6	19 59 59.01	6 48.91	−22 42 20.0	22 22.7	0.108744	5435	1 1.2
	7	20 6 47.92	6 44.32	22 19 57.3	23 51.1	0.103309	5815	1 4.0
	8	20 13 32.24	6 38.95	21 56 6.2	25 16.6	0.097494	6214	1 6.8
	9	20 20 11.19	6 32.65	21 30 49.6	26 38.6	0.091280	6637	1 9.5
	10	20 26 43.84	6 25.33	21 4 11.0	27 56.3	0.084643	7080	1 12.1
	11	20 33 9.17	6 16.84	−20 36 14.7	29 8.6	0.077563	7546	1 14.6
	12	20 39 26.01	6 7.03	20 7 6.1	30 14.4	0.070017	8034	1 17.0
	13	20 45 33.04	5 55.74	19 36 51.7	31 12.1	0.061983	8541	1 19.1
	14	20 51 28.78	5 42.76	19 5 39.6	32 0.6	0.053442	9067	1 21.1
	15	20 57 11.54	5 27.91	18 33 39.0	32 38.0	0.044375	9607	1 22.9
	16	21 2 39.45	5 10.98	−18 1 1.0	33 2.3	0.034768	10158	1 24.4
	17	21 7 50.43	4 51.73	17 27 58.7	33 11.8	0.024610	10711	1 25.6
	18	21 12 42.16	4 29.98	16 54 46.9	33 4.2	0.013899	11257	1 26.5
	19	21 17 12.14	4 5.52	16 21 42.7	32 37.4	0.002642	11788	1 27.0
	20	21 21 17.66	3 38.19	15 49 5.3	31 49.4	9.990854	12286	1 27.1
	21	21 24 55.85	3 7.90	−15 17 15.9	30 38.3	9.978568	12736	1 26.8
	22	21 28 3.75	2 34.63	14 46 37.6	29 2.6	9.965832	13118	1 25.9
	23	21 30 38.38	1 58.44	14 17 35.0	27 0.9	9.952714	13410	1 24.5
	24	21 32 36.82	1 19.59	13 50 34.1	24 33.4	9.939304	13589	1 22.5
	25	21 33 56.41	0 38.44	13 26 0.7	21 40.5	9.925715	13627	1 19.9
	26	21 34 34.85	0 4.39	−13 4 20.2	18 23.4	9.912088	13502	1 16.6
	27	21 34 30.46	0 48.13	12 45 56.8	14 45.7	9.898586	13191	1 12.5
	28	21 33 42.33	1 31.78	12 31 11.1	10 51.5	9.885395	12674	1 7.8
	29	21 32 10.55	2 14.16	12 20 19.6	6 46.2	9.872721	11943	1 2.2
	30	21 29 56.39	2 53.92	12 13 33.4	2 36.5	9.860778	10992	0 56.1
	31	21 27 2.47	3 29.70	−12 10 56.9	1 29.7	9.849786	9833	0 49.2
Febr.	1	21 23 32.77	4 0.16	12 12 26.6	5 24.9	9.839953	8487	0 41.8
	2	21 19 32.61	4 24.14	12 17 51.5	9 1.6	9.831466	6985	0 33.9
	3	21 15 8.47	4 40.72	12 26 53.1	12 13.0	9.824481	5373	0 25.6
	4	21 10 27.75	4 49.41	12 39 6.1	14 54.4	9.819108	3702	0 17.0
	5	21 5 38.34	4 50.10	−12 54 0.5	17 2.6	9.815406	2023	{ 0 8.3 23 59.6
	6	21 0 48.24	4 43.14	13 11 3.1	18 36.7	9.813383	390	23 51.0
	7	20 56 5.10	4 29.23	13 29 39.8	19 37.6	9.812993	1155	23 42.6
	8	20 51 35.87	4 9.35	13 49 17.4	20 7.6	9.814148	2574	23 34.5
	9	20 47 26.52		14 9 25.0		9.816722		23 26.9

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Febr. 8	20 51 35.87	4 9.35	−13 49 17.4	20 7.6	9.814148	2574	23 34.5
9	20 47 26.52	3 44.67	14 9 25.0	20 10.4	9.816722	3841	23 26.9
10	20 43 41.85	3 16.39	14 29 35.4	19 50.1	9.820563	4946	23 19.7
11	20 40 25.46	2 45.67	14 49 25.5	19 10.6	9.825509	5881	23 13.0
12	20 37 39.79	2 13.59	15 8 36.1	18 15.9	9.831390	6653	23 6.9
13	20 35 26.20	1 41.02	−15 26 52.0	17 9.6	9.838043	7270	23 1.2
14	20 33 45.18	1 8.70	15 44 1.6	15 54.3	9.845313	7748	22 56.2
15	20 32 36.48	0 37.20	15 59 55.9	14 32.8	9.853061	8100	22 51.6
16	20 31 59.28	0 6.89	16 14 28.7	13 6.8	9.861161	8345	22 47.5
17	20 31 52.39	0 21.91	16 27 35.5	11 37.7	9.869506	8498	22 43.9
18	20 32 14.30	0 49.07	−16 39 13.2	10 6.7	9.878004	8574	22 40.8
19	20 33 3.37	1 14.49	16 49 19.9	8 34.7	9.886578	8587	22 38.1
20	20 34 17.86	1 38.14	16 57 54.6	7 2.1	9.895165	8547	22 35.7
21	20 35 56.00	2 0.08	17 4 56.7	5 29.5	9.903712	8466	22 33.8
22	20 37 56.08	2 20.35	17 10 26.2	3 57.1	9.912178	8353	22 32.2
23	20 40 16.43	2 39.02	−17 14 23.3	2 25.1	9.920531	8215	22 30.9
24	20 42 55.45	2 56.20	17 16 48.4	0 53.7	9.928746	8056	22 29.8
25	20 45 51.65	3 11.98	17 17 42.1	0 36.9	9.936802	7885	22 29.1
26	20 49 3.63	3 26.46	17 17 5.2	2 6.8	9.944687	7703	22 28.6
27	20 52 30.09	3 39.74	17 14 58.4	3 36.0	9.952390	7515	22 28.3
28	20 56 9.83	3 51.92	−17 11 22.4	5 4.3	9.959905	7323	22 28.2
29	21 0 1.75	4 3.09	17 6 18.1	6 31.8	9.967228	7130	22 28.3
März 1	21 4 4.84	4 13.34	16 59 46.3	7 58.5	9.974358	6936	22 28.5
2	21 8 18.18	4 22.74	16 51 47.8	9 24.4	9.981294	6744	22 29.0
3	21 12 40.92	4 31.39	16 42 23.4	10 49.5	9.988038	6554	22 29.6
4	21 17 12.31	4 39.34	−16 31 33.9	12 13.8	9.994592	6368	22 30.3
5	21 21 51.65	4 46.67	16 19 20.1	13 37.3	0.000960	6185	22 31.1
6	21 26 38.32	4 53.43	16 5 42.8	15 0.1	0.007145	6007	22 32.0
7	21 31 31.75	4 59.69	15 50 42.7	16 22.2	0.013152	5833	22 33.1
8	21 36 31.44	5 5.48	15 34 20.5	17 43.5	0.018985	5663	22 34.2
9	21 41 36.92	5 10.87	−15 16 37.0	19 4.2	0.024648	5498	22 35.4
10	21 46 47.79	5 15.90	14 57 32.8	20 24.2	0.030146	5338	22 36.8
11	21 52 3.69	5 20.61	14 37 8.6	21 43.6	0.035484	5181	22 38.2
12	21 57 24.30	5 25.03	14 15 25.0	23 2.3	0.040665	5028	22 39.6
13	22 2 49.33	5 29.20	13 52 22.7	24 20.3	0.045693	4880	22 41.2
14	22 8 18.53	5 33.15	−13 28 2.4	25 37.7	0.050573	4734	22 42.8
15	22 13 51.68	5 36.93	13 2 24.7	26 54.5	0.055307	4592	22 44.5
16	22 19 28.61	5 40.55	12 35 30.2	28 10.7	0.059899	4453	22 46.2
17	22 25 9.16	5 44.05	12 7 19.5	29 26.2	0.064352	4317	22 48.0
18	22 30 53.21		11 37 53.3		0.068669		22 49.8

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
März 17	22 25 9.16	5 44.05	−12 7 19.5	29 26.2	0.064352	4317	22 48.0
18	22 30 53.21	5 47.43	11 37 53.3	30 41.2	0.068669	4181	22 49.8
19	22 36 40.64	5 50.74	11 7 12.1	31 55.5	0.072850	4048	22 51.7
20	22 42 31.38	5 54.01	10 35 16.6	33 9.1	0.076898	3916	22 53.7
21	22 48 25.39	5 57.24	10 2 7.5	34 22.1	0.080814	3784	22 55.7
22	22 54 22.63	6 0.47	− 9 27 45.4	35 34.5	0.084598	3653	22 57.8
23	23 0 23.10	6 3.70	8 52 10.9	36 46.2	0.088251	3520	22 59.9
24	23 6 26.80	6 6.97	8 15 24.7	37 57.1	0.091771	3386	23 2.1
25	23 12 33.77	6 10.28	7 37 27.6	39 7.2	0.095157	3251	23 4.3
26	23 18 44.05	6 13.66	6 58 20.4	40 16.5	0.098408	3113	23 6.6
27	23 24 57.71	6 17.13	− 6 18 3.9	41 24.9	0.101521	2971	23 8.9
28	23 31 14.84	6 20.69	5 36 39.0	42 32.2	0.104492	2825	23 11.3
29	23 37 35.53	6 24.37	4 54 6.8	43 38.5	0.107317	2674	23 13.8
30	23 43 59.90	6 28.17	4 10 28.3	44 43.5	0.109991	2517	23 16.3
31	23 50 28.07	6 32.12	3 25 44.8	45 47.1	0.112508	2353	23 18.9
April 1	23 57 0.19	6 36.21	− 2 39 57.7	46 49.3	0.114861	2180	23 21.6
2	0 3 36.40	6 40.46	1 53 8.4	47 49.5	0.117041	1999	23 24.3
3	0 10 16.86	6 44.88	1 5 18.9	48 47.8	0.119040	1807	23 27.2
4	0 17 1.74	6 49.46	− 0 16 31.1	49 43.9	0.120847	1602	23 30.0
5	0 23 51.20	6 54.21	+ 0 33 12.8	50 37.2	0.122449	1385	23 33.0
6	0 30 45.41	6 59.10	+ 1 23 50.0	51 27.4	0.123834	1153	23 36.0
7	0 37 44.51	7 4.14	2 15 17.4	52 14.0	0.124987	904	23 39.2
8	0 44 48.65	7 9.31	3 7 31.4	52 56.6	0.125891	637	23 42.4
9	0 51 57.96	7 14.57	4 0 28.0	53 34.4	0.126528	352	23 45.7
10	0 59 12.53	7 19.87	4 54 2.4	54 6.8	0.126880	47	23 49.1
11	1 6 32.40	7 25.19	+ 5 48 9.2	54 33.1	0.126927	281	23 52.6
12	1 13 57.59	7 30.45	6 42 42.3	54 52.3	0.126646	631	23 56.2
13	1 21 28.04	7 35.58	7 37 34.6	55 3.6	0.126015	1004	23 59.8
14	1 29 3.62	7 40.49	8 32 38.2	55 6.1	0.125011	1400	—
15	1 36 44.11	7 45.09	9 27 44.3	54 59.0	0.123611	1819	0 3.6
16	1 44 29.20	7 49.27	+10 22 43.3	54 41.3	0.121792	2261	0 7.4
17	1 52 18.47	7 52.91	11 17 24.6	54 12.2	0.119531	2721	0 11.3
18	2 0 11.38	7 55.90	12 11 36.8	53 31.1	0.116810	3200	0 15.2
19	2 8 7.28	7 58.10	13 5 7.9	52 37.5	0.113610	3694	0 19.2
20	2 16 5.38	7 59.42	13 57 45.4	51 31.3	0.109916	4198	0 23.3
21	2 24 4.80	7 59.73	+14 49 16.7	50 12.4	0.105718	4707	0 27.3
22	2 32 4.53	7 58.96	15 39 29.1	48 41.2	0.101011	5219	0 31.4
23	2 40 3.49	7 57.02	16 28 10.3	46 58.4	0.095792	5727	0 35.4
24	2 48 0.51	7 53.89	17 15 8.7	45 4.8	0.090065	6226	0 39.5
25	2 55 54.40		18 0 13.5		0.083839		0 43.4

Merkur 1916

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
April 24	2 48 0.51	7 53.89	+17 15 8.7	45 4.8	0.090065	6226	0 39.5
25	2 55 54.40	7 49.53	18 0 13.5	43 1.5	0.083839	6711	0 43.4
26	3 3 43.93	7 43.95	18 43 15.0	40 50.1	0.077128	7178	0 47.3
27	3 11 27.88	7 37.18	19 24 5.1	38 31.9	0.069950	7624	0 51.1
28	3 19 5.06	7 29.25	20 2 37.0	36 8.5	0.062326	8045	0 54.8
29	3 26 34.31	7 20.22	+20 38 45.5	33 41.2	0.054281	8439	0 58.3
30	3 33 54.53	7 10.15	21 12 26.7	31 11.6	0.045842	8805	1 1.7
Mai 1	3 41 4.68	6 59.11	21 43 38.3	28 41.0	0.037037	9141	1 4.9
2	3 48 3.79	6 47.17	22 12 19.3	26 10.5	0.027896	9448	1 8.0
3	3 54 50.96	6 34.40	22 38 29.8	23 41.2	0.018448	9725	1 10.8
4	4 1 25.36	6 20.86	+23 2 11.0	21 13.7	0.008723	9972	1 13.4
5	4 7 46.22	6 6.59	23 23 24.7	18 49.0	9.998751	10191	1 15.8
6	4 13 52.81	5 51.64	23 42 13.7	16 27.5	9.988560	10381	1 18.0
7	4 19 44.45	5 36.07	23 58 41.2	14 9.5	9.978179	10544	1 19.9
8	4 25 20.52	5 19.89	24 12 50.7	11 55.4	9.967635	10679	1 21.5
9	4 30 40.41	5 3.16	+24 24 46.1	9 45.5	9.956956	10788	1 22.9
10	4 35 43.57	4 45.88	24 34 31.6	7 39.6	9.946168	10869	1 24.0
11	4 40 29.45	4 28.08	24 42 11.2	5 38.1	9.935299	10924	1 24.9
12	4 44 57.53	4 9.79	24 47 49.3	3 40.6	9.924375	10950	1 25.3
13	4 49 7.32	3 51.02	24 51 29.9	1 47.4	9.913425	10949	1 25.5
14	4 52 58.34	3 31.81	+24 53 17.3	0 1.7	9.902476	10918	1 25.4
15	4 56 30.15	3 12.19	24 53 15.6	1 46.9	9.891558	10855	1 25.0
16	4 59 42.34	2 52.20	24 51 28.7	3 28.2	9.880703	10761	1 24.2
17	5 2 34.54	2 31.90	24 48 0.5	5 5.6	9.869942	10633	1 23.1
18	5 5 6.44	2 11.32	24 42 54.9	6 39.2	9.859309	10466	1 21.7
19	5 7 17.76	1 50.55	+24 36 15.7	8 9.0	9.848843	10263	1 19.9
20	5 9 8.31	1 29.68	24 28 6.7	9 35.1	9.838580	10017	1 17.8
21	5 10 37.99	1 8.80	24 18 31.6	10 57.4	9.828563	9729	1 15.3
22	5 11 46.79	0 48.03	24 7 34.2	12 15.6	9.818834	9394	1 12.5
23	5 12 34.82	0 27.50	23 55 18.6	13 29.5	9.809440	9012	1 9.4
24	5 13 2.32	0 7.38	+23 41 49.1	14 38.8	9.800428	8580	1 5.9
25	5 13 9.70	0 12.19	23 27 10.3	15 43.1	9.791848	8096	1 2.0
26	5 12 57.51	0 31.00	23 11 27.2	16 41.9	9.783752	7560	0 57.9
27	5 12 26.51	0 48.86	22 54 45.3	17 34.4	9.776192	6971	0 53.4
28	5 11 37.65	1 5.56	22 37 10.9	18 20.0	9.769221	6333	0 48.7
29	5 10 32.09	1 20.88	+22 18 50.9	18 58.1	9.762888	5643	0 43.7
30	5 9 11.21	1 34.62	21 59 52.8	19 27.4	9.757245	4906	0 38.4
31	5 7 36.59	1 46.59	21 40 25.4	19 47.4	9.752339	4128	0 32.9
Juni 1	5 5 50.00	1 56.62	21 20 38.0	19 57.2	9.748211	3313	0 27.2
2	5 3 53.38		21 0 40.8		9.744898		0 21.3

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Juni	1	5 5 50.00	1 56.62	+21 20 38.0	19 57.2	9.748211	3313	0 27.2
	2	5 3 53.38	2 4.52	21 0 40.8	19 56.2	9.744898	2467	0 21.3
	3	5 1 48.86	2 10.21	20 40 44.6	19 43.7	9.742431	1598	0 15.3
	4	4 59 38.65	2 13.60	20 21 0.9	19 19.4	9.740833	715	0 9.2
	5	4 57 25.05	2 14.63	20 1 41.5	18 43.2	9.740118	176	{0 3.1 / 23 56.9
	6	4 55 10.42	2 13.34	+19 52 58.3	17 55.1	9.740294	1061	23 50.8
	7	4 52 57.08	2 9.76	19 25 3.2	16 55.6	9.741355	1937	23 44.7
	8	4 50 47.32	2 4.00	19 8 7.6	15 45.3	9.743292	2791	23 38.7
	9	4 48 43.32	1 56.17	18 52 22.3	14 25.0	9.746083	3617	23 32.9
	10	4 46 47.15	1 46.44	18 37 57.3	12 55.9	9.749700	4408	23 27.2
	11	4 45 0.71	1 34.97	+18 25 1.4	11 19.3	9.754108	5159	23 21.7
	12	4 43 25.74	1 21.96	18 13 42.1	9 36.6	9.759267	5863	23 16.4
	13	4 42 3.78	1 7.62	18 4 5.5	7 49.2	9.765130	6520	23 11.3
	14	4 40 56.16	0 52.13	17 56 16.3	5 58.6	9.771650	7126	23 6.5
	15	4 40 4.03	0 35.68	17 50 17.7	4 6.2	9.778776	7679	23 2.0
	16	4 39 28.35	0 18.45	+17 46 11.5	2 13.3	9.786455	8180	22 57.7
	17	4 39 9.90	0 0.61	17 43 58.2	0 21.4	9.794635	8630	22 53.8
	18	4 39 9.29	0 17.69	17 43 36.8	1 28.6	9.803265	9030	22 50.1
	19	4 39 26.98	0 36.33	17 45 5.4	3 15.4	9.812295	9382	22 46.8
	20	4 40 3.31	0 55.21	17 48 20.8	4 58.3	9.821677	9687	22 43.7
	21	4 40 58.52	1 14.22	+17 53 19.1	6 36.3	9.831364	9949	22 41.0
	22	4 42 12.74	1 33.31	17 59 55.4	8 9.1	9.841313	10170	22 38.6
	23	4 43 46.05	1 52.41	18 8 4.5	9 35.6	9.851483	10353	22 36.5
	24	4 45 38.46	2 11.51	18 17 40.1	10 55.8	9.861836	10501	22 34.8
	25	4 47 49.97	2 30.55	18 28 35.9	12 9.0	9.872337	10614	22 33.3
	26	4 50 20.52	2 49.52	+18 40 44.9	13 14.8	9.882951	10697	22 32.2
	27	4 53 10.04	3 8.44	18 53 59.7	14 13.0	9.893648	10750	22 31.4
	28	4 56 18.48	3 27.29	19 8 12.7	15 3.2	9.904398	10776	22 30.9
	29	4 59 45.77	3 46.07	19 23 15.9	15 45.1	9.915174	10775	22 30.7
	30	5 3 31.84	4 4.79	19 39 1.0	16 18.3	9.925949	10748	22 30.8
Juli	1	5 7 36.63	4 23.45	+19 55 19.3	16 42.7	9.936697	10697	22 31.2
	2	5 12 0.08	4 42.07	20 12 2.0	16 57.7	9.947394	10620	22 32.0
	3	5 16 42.15	5 0.62	20 28 59.7	17 3.1	9.958014	10521	22 33.0
	4	5 21 42.77	5 19.10	20 46 2.8	16 58.6	9.968535	10397	22 34.4
	5	5 27 1.87	5 37.50	21 3 1.4	16 43.6	9.978932	10247	22 36.1
	6	5 32 39.37	5 55.76	+21 19 45.0	16 17.9	9.989179	10073	22 38.0
	7	5 38 35.13	6 13.86	21 36 2.9	15 41.0	9.999252	9872	22 40.3
	8	5 44 48.99	6 31.71	21 51 43.9	14 52.7	0.009124	9645	22 42.9
	9	5 51 20.70	6 49.23	22 6 36.6	13 52.5	0.018769	9391	22 45.8
	10	5 58 9.93		22 20 29.1		0.028160		22 48.9

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Tag		Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	log Δ	Diff.	Zeit der oberen Kulmination h m
Juli	9	5 51 20.70	6 49.23	+22 6 36.6	13 52.5	0.018769	9391	22 45.8
	10	5 58 9.93	7 6.34	22 20 29.1	12 40.4	0.028160	9107	22 48.9
	11	6 5 16.27	7 22.90	22 33 9.5	11 16.0	0.037267	8797	22 52.4
	12	6 12 39.17	7 38.75	22 44 25.5	9 39.7	0.046064	8456	22 56.1
	13	6 20 17.92	7 53.76	22 54 5.2	7 51.7	0.054520	8087	23 0.0
	14	6 28 11.68	8 7.75	+23 1 56.9	5 52.2	0.062607	7692	23 4.2
	15	6 36 19.43	8 20.54	23 7 49.1	3 42.2	0.070299	7269	23 8.6
	16	6 44 39.97	8 31.96	23 11 31.3	1 22.7	0.077568	6824	23 13.2
	17	6 53 11.93	8 41.88	23 12 54.0	1 4.8	0.084392	6358	23 18.0
	18	7 1 53.81	8 50.13	23 11 49.2	3 39.0	0.090750	5874	23 22.9
	19	7 10 43.94	8 56.63	+23 8 10.2	6 18.1	0.096624	5379	23 27.9
	20	7 19 40.57	9 1.31	23 1 52.1	9 0.0	0.102003	4876	23 33.0
	21	7 28 41.88	9 4.18	22 52 52.1	11 42.7	0.106879	4369	23 38.1
	22	7 37 46.06	9 5.23	22 41 9.4	14 24.5	0.111248	3866	23 43.3
	23	7 46 51.29	9 4.57	22 26 44.9	17 3.4	0.115114	3369	23 48.5
	24	7 55 55.86	9 2.30	+22 9 41.5	19 37.6	0.118483	2884	23 53.6
	25	8 4 58.16	8 58.56	21 50 3.9	22 5.8	0.121367	2414	23 58.6
	26	8 13 56.72	8 53.51	21 27 58.1	24 26.9	0.123781	1961	—
	27	8 22 50.23	8 47.34	21 3 31.2	26 39.7	0.125742	1529	0 3.6
	28	8 31 37.57	8 40.23	20 36 51.5	28 44.0	0.127271	1119	0 8.4
	29	8 40 17.80	8 32.33	+20 8 7.5	30 39.0	0.128390	732	0 13.2
	30	8 48 50.13	8 23.85	19 37 28.5	32 24.8	0.129122	367	0 17.8
	31	8 57 13.98	8 14.90	19 5 3.7	34 1.6	0.129489	25	0 22.3
Aug.	1	9 5 28.88	8 5.65	18 31 2.1	35 29.2	0.129514	295	0 26.6
	2	9 13 34.53	7 56.21	17 55 32.9	36 48.1	0.129219	593	0 30.7
	3	9 21 30.74	7 46.67	+17 18 44.8	37 58.7	0.128626	872	0 34.7
	4	9 29 17.41	7 37.13	16 40 46.1	39 1.3	0.127754	1132	0 38.6
	5	9 36 54.54	7 27.65	16 1 44.8	39 56.4	0.126622	1376	0 42.3
	6	9 44 22.19	7 18.29	15 21 48.4	40 44.6	0.125246	1602	0 45.8
	7	9 51 40.48	7 9.09	14 41 3.8	41 26.2	0.123644	1816	0 49.1
	8	9 58 49.57	7 0.09	+13 59 37.6	42 1.8	0.121828	2016	0 52.4
	9	10 5 49.66	6 51.31	13 17 35.8	42 31.7	0.119812	2205	0 55.4
	10	10 12 40.97	6 42.77	12 35 4.1	42 56.3	0.117607	2384	0 58.3
	11	10 19 23.74	6 34.48	11 52 7.8	43 16.1	0.115223	2553	1 1.1
	12	10 25 58.22	6 26.42	11 8 51.7	43 31.4	0.112670	2716	1 3.7
	13	10 32 24.64	6 18.63	+10 25 20.3	43 42.4	0.109954	2871	1 6.2
	14	10 38 43.27	6 11.08	9 41 37.9	43 49.6	0.107083	3021	1 8.6
	15	10 44 54.35	6 3.76	8 57 48.3	43 53.1	0.104062	3167	1 10.8
	16	10 50 58.11	5 56.67	8 13 55.2	43 53.2	0.100895	3308	1 12.9
	17	10 56 54.78		7 30 2.0		0.097587		1 14.9

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Aug.	16	10 50 58.11	5 56.67	+ 8 13 55.2	43 53.2	0.100895	3308	1 12.9
	17	10 56 54.78	5 49.79	7 30 2.0	43 50.1	0.097587	3447	1 14.9
	18	11 2 44.57	5 43.10	6 46 11.9	43 43.9	0.094140	3584	1 16.8
	19	11 8 27.67	5 36.60	6 2 28.0	43 34.7	0.090556	3718	1 18.6
	20	11 14 4.27	5 30.27	5 18 53.3	43 22.8	0.086838	3854	1 20.3
	21	11 19 34.54	5 24.07	+ 4 35 30.5	43 8.3	0.082984	3987	1 21.8
	22	11 24 58.61	5 18.00	3 52 22.2	42 51.1	0.078997	4123	1 23.3
	23	11 30 16.61	5 12.03	3 9 31.1	42 31.3	0.074874	4258	1 24.6
	24	11 35 28.64	5 6.15	2 26 59.8	42 9.1	0.070616	4395	1 25.9
	25	11 40 34.79	5 0.31	1 44 50.7	41 44.4	0.066221	4534	1 27.0
	26	11 45 35.10	4 54.51	+ 1 3 6.3	41 17.2	0.061687	4675	1 28.1
	27	11 50 29.61	4 48.71	+ 0 21 49.1	40 47.5	0.057012	4819	1 29.0
	28	11 55 18.32	4 42.90	− 0 18 58.4	40 15.3	0.052193	4965	1 29.9
	29	12 0 1.22	4 37.03	0 59 13.7	39 40.5	0.047228	5115	1 30.7
	30	12 4 38.25	4 31.07	1 38 54.2	39 3.0	0.042113	5269	1 31.3
	31	12 9 9.32	4 24.99	− 2 17 57.2	38 22.7	0.036844	5425	1 31.9
Sept.	1	12 13 34.31	4 18.76	2 56 19.9	37 39.6	0.031419	5586	1 32.4
	2	12 17 53.07	4 12.33	3 33 59.5	36 53.3	0.025833	5751	1 32.7
	3	12 22 5.40	4 5.67	4 10 52.8	36 3.8	0.020082	5919	1 33.0
	4	12 26 11.07	3 58.72	4 46 56.6	35 10.9	0.014163	6091	1 33.1
	5	12 30 9.79	3 51.45	− 5 22 7.5	34 14.2	0.008072	6267	1 33.2
	6	12 34 1.24	3 43.79	5 56 21.7	33 13.6	0.001805	6446	1 33.1
	7	12 37 45.03	3 35.71	6 29 35.3	32 8.7	9.995359	6628	1 32.8
	8	12 41 20.74	3 27.11	7 1 44.0	30 59.1	9.988731	6812	1 32.5
	9	12 44 47.85	3 17.96	7 32 43.1	29 44.4	9.981919	6997	1 32.0
	10	12 48 5.81	3 8.17	− 8 2 27.5	28 24.0	9.974922	7182	1 31.3
	11	12 51 13.98	2 57.69	8 30 51.5	26 57.7	9.967740	7366	1 30.5
	12	12 54 11.67	2 46.42	8 57 49.2	25 24.6	9.960374	7548	1 29.5
	13	12 56 58.09	2 34.29	9 23 13.8	23 44.2	9.952826	7724	1 28.3
	14	12 59 32.38	2 21.21	9 46 58.0	21 55.7	9.945102	7892	1 26.9
	15	13 1 53.59	2 7.12	−10 8 53.7	19 58.1	9.937210	8048	1 25.3
	16	13 4 0.71	1 51.90	10 28 51.8	17 50.8	9.929162	8190	1 23.5
	17	13 5 52.61	1 35.50	10 46 42.6	15 32.8	9.920972	8309	1 21.4
	18	13 7 28.11	1 17.84	11 2 15.4	13 3.1	9.912663	8402	1 19.0
	19	13 8 45.95	0 58.89	11 15 18.5	10 20.9	9.904261	8461	1 16.4
	20	13 9 44.84	0 38.62	−11 25 39.4	7 25.0	9.895800	8475	1 13.4
	21	13 10 23.46	0 17.04	11 33 4.4	4 15.0	9.887325	8437	1 10.1
	22	13 10 40.50	0 5.77	11 37 19.4	0 50.2	9.878888	8334	1 6.4
	23	13 10 34.73	0 29.71	11 38 9.6	2 49.4	9.870554	8153	1 2.4
	24	13 10 5.02		11 35 20.2		9.862401		0 57.9

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Sept. 23	13 10 34.73	0 29.71	−11 38 9.6	2 49.4	9.870554	8153	1 2.4
24	13 10 5.02	0 54.53	11 35 20.2	6 43.6	9.862401	7879	0 57.9
25	13 9 10.49	1 19.96	11 28 36.6	10 50.9	9.854522	7497	0 53.1
26	13 7 50.53	1 45.56	11 17 45.7	15 9.1	9.847025	6992	0 47.8
27	13 6 4.97	2 10.79	11 2 36.6	19 35.0	9.840033	6350	0 42.1
28	13 3 54.18	2 34.99	−10 43 1.6	24 3.3	9.833683	5560	0 36.0
29	13 1 19.19	2 57.35	10 18 58.3	28 27.5	9.828123	4611	0 29.5
30	12 58 21.84	3 16.99	9 50 30.8	32 39.5	9.823512	3500	0 22.6
Okt. 1	12 55 4.85	3 33.01	9 17 51.3	36 29.3	9.820012	2236	0 15.5
2	12 51 31.84	3 44.46	8 41 22.0	39 46.7	9.817776	830	0 8.0
3	12 47 47.38	3 50.54	− 8 1 35.3	42 21.2	9.816946	692	0 0.4 23 52.6
4	12 43 56.84	3 50.59	7 19 14.1	44 3.0	9.817638	2295	23 44.9
5	12 40 6.25	3 44.23	6 35 11.1	44 44.7	9.819933	3936	23 37.2
6	12 36 22.02	3 31.35	5 50 26.4	44 21.4	9.823869	5566	23 29.8
7	12 32 50.67	3 12.22	5 6 5.0	42 52.1	9.829435	7137	23 22.7
8	12 29 38.45	2 47.37	− 4 23 12.9	40 19.4	9.836572	8599	23 16.0
9	12 26 51.08	2 17.66	3 42 53.5	36 49.6	9.845171	9912	23 9.8
10	12 24 33.42	1 44.09	3 6 3.9	32 31.3	9.855083	11044	23 4.1
11	12 22 49.33	1 7.77	2 33 32.6	27 35.3	9.866127	11977	22 59.0
12	12 21 41.56	0 29.88	2 5 57.3	22 12.6	9.878104	12698	22 54.5
13	12 21 11.68	0 8.52	− 1 43 44.7	16 34.6	9.890802	13210	22 50.7
14	12 21 20.20	0 46.46	1 27 10.1	10 51.4	9.904012	13523	22 47.5
15	12 22 6.66	1 23.12	1 16 18.7	5 11.9	9.917535	13651	22 45.0
16	12 23 29.78	1 57.85	1 11 6.8	0 16.4	9.931186	13619	22 43.0
17	12 25 27.63	2 30.20	1 11 23.2	5 27.7	9.944805	13445	22 41.5
18	12 27 57.83	2 59.87	− 1 16 50.9	10 18.1	9.958250	13156	22 40.5
19	12 30 57.70	3 26.69	1 27 9.0	14 44.6	9.971406	12775	22 40.0
20	12 34 24.39	3 50.65	1 41 53.6	18 46.0	9.984181	12322	22 39.9
21	12 38 15.04	4 11.82	2 0 39.6	22 21.6	9.996503	11819	22 40.2
22	12 42 26.86	4 30.31	2 23 1.2	25 31.8	0.008322	11282	22 40.7
23	12 46 57.17	4 46.35	− 2 48 33.0	28 17.3	0.019604	10724	22 41.5
24	12 51 43.52	5 0.14	3 16 50.3	30 39.6	0.030328	10158	22 42.5
25	12 56 43.66	5 11.91	3 47 29.9	32 40.2	0.040486	9595	22 43.8
26	13 1 55.57	5 21.89	4 20 10.1	34 21.0	0.050081	9040	22 45.2
27	13 7 17.46	5 30.34	4 54 31.1	35 43.7	0.059121	8499	22 46.8
28	13 12 47.80	5 37.45	− 5 30 14.8	36 50.0	0.067620	7975	22 48.5
29	13 18 25.25	5 43.41	6 7 4.8	37 41.7	0.075595	7474	22 50.2
30	13 24 8.66	5 48.42	6 44 46.5	38 20.5	0.083069	6994	22 52.1
31	13 29 57.08	5 52.61	7 23 7.0	38 47.6	0.090063	6536	22 54.0
Nov. 1	13 35 49.69		8 1 54.6		0.096599		22 56.0

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Tag		Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	log Δ	Diff.	Zeit der oberen Kulmination h m
Okt.	31	13 29 57.08	5 52.61	− 7 23 7.0	38 47.6	0.090063	6536	22 54.0
Nov.	1	13 35 49.69	5 56.15	8 1 54.6	39 4.6	0.096599	6101	22 56.0
	2	13 41 45.84	5 59.13	8 40 59.2	39 12.6	0.102700	5690	22 58.1
	3	13 47 44.97	6 1.68	9 20 11.8	39 12.7	0.108390	5300	23 0.1
	4	13 53 46.65	6 3.86	9 59 24.5	39 5.7	0.113690	4930	23 2.3
	5	13 59 50.51	6 5.77	−10 38 30.2	38 52.7	0.118620	4581	23 4.4
	6	14 5 56.28	6 7.47	11 17 22.9	38 34.2	0.123201	4249	23 6.6
	7	14 12 3.75	6 9.00	11 55 57.1	38 10.9	0.127450	3935	23 8.8
	8	14 18 12.75	6 10.42	12 34 8.0	37 43.4	0.131385	3638	23 11.1
	9	14 24 23.17	6 11.74	13 11 51.4	37 12.0	0.135023	3355	23 13.3
	10	14 30 34.91	6 13.03	−13 49 3.4	36 37.3	0.138378	3085	23 15.6
	11	14 36 47.94	6 14.28	14 25 40.7	35 59.4	0.141463	2829	23 17.9
	12	14 43 2.22	6 15.52	15 1 40.1	35 18.8	0.144292	2583	23 20.2
	13	14 49 17.74	6 16.78	15 36 58.9	34 35.8	0.146875	2348	23 22.6
	14	14 55 34.52	6 18.05	16 11 34.7	33 50.3	0.149223	2123	23 24.9
	15	15 1 52.57	6 19.35	−16 45 25.0	33 2.7	0.151346	1906	23 27.3
	16	15 8 11.92	6 20.69	17 18 27.7	32 13.1	0.153252	1696	23 29.7
	17	15 14 32.61	6 22.07	17 50 40.8	31 21.7	0.154948	1494	23 32.1
	18	15 20 54.68	6 23.49	18 22 2.5	30 28.4	0.156442	1297	23 34.6
	19	15 27 18.17	6 24.95	18 52 30.9	29 33.5	0.157739	1106	23 37.1
	20	15 33 43.12	6 26.46	−19 22 4.4	28 36.9	0.158845	919	23 39.6
	21	15 40 9.58	6 28.00	19 50 41.3	27 38.9	0.159764	737	23 42.1
	22	15 46 37.58	6 29.59	20 18 20.2	26 39.2	0.160501	558	23 44.7
	23	15 53 7.17	6 31.20	20 44 59.4	25 38.1	0.161059	382	23 47.2
	24	15 59 38.37	6 32.84	21 10 37.5	24 35.5	0.161441	207	23 49.8
	25	16 6 11.21	6 34.50	−21 35 13.0	23 31.4	0.161648	35	23 52.5
	26	16 12 45.71	6 36.17	21 58 44.4	22 25.9	0.161683	137	23 55.2
	27	16 19 21.88	6 37.85	22 21 10.3	21 19.0	0.161546	307	23 57.8
	28	16 25 59.73	6 39.52	22 42 29.3	20 10.6	0.161239	478	—
	29	16 32 39.25	6 41.18	23 2 39.9	19 1.0	0.160761	649	0 0.6
	30	16 39 20.43	6 42.81	−23 21 40.9	17 49.8	0.160112	821	0 3.3
Dez.	1	16 46 3.24	6 44.42	23 39 30.7	16 37.3	0.159291	994	0 6.1
	2	16 52 47.66	6 45.97	23 56 8.0	15 23.3	0.158297	1170	0 8.9
	3	16 59 33.63	6 47.47	24 11 31.3	14 8.0	0.157127	1348	0 11.7
	4	17 6 21.10	6 48.90	24 25 39.3	12 51.3	0.155779	1529	0 14.6
	5	17 13 10.00	6 50.24	−24 38 30.6	11 33.2	0.154250	1713	0 17.5
	6	17 20 0.24	6 51.48	24 50 3.8	10 13.7	0.152537	1903	0 20.4
	7	17 26 51.72	6 52.59	25 0 17.5	8 52.9	0.150634	2097	0 23.3
	8	17 33 44.31	6 53.56	25 9 10.4	7 30.7	0.148537	2296	0 26.2
	9	17 40 37.87		25 16 41.1		0.146241		0 29.2

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Dez. 8	17 33 44.31	6 53.56	−25 9 10.4	7 30.7	0.148537	2296	0 26.2
9	17 40 37.87	6 54.38	25 16 41.1	6 7.2	0.146241	2502	0 29.2
10	17 47 32.25	6 55.01	25 22 48.3	4 42.5	0.143739	2716	0 32.1
11	17 54 27.26	6 55.42	25 27 30.8	3 16.6	0.141023	2936	0 35.1
12	18 1 22.68	6 55.60	25 30 47.4	1 49.5	0.138087	3166	0 38.1
13	18 8 18.28	6 55.51	−25 32 36.9	0 21.3	0.134921	3406	0 41.1
14	18 15 13.79	6 55.11	25 32 58.2	1 7.7	0.131515	3654	0 44.1
15	18 22 8.90	6 54.37	25 31 50.5	2 37.7	0.127861	3916	0 47.1
16	18 29 3.27	6 53.25	25 29 12.8	4 8.3	0.123945	4189	0 50.0
17	18 35 56.52	6 51.68	25 25 4.5	5 39.4	0.119756	4476	0 53.0
18	18 42 48.20	6 49.64	−25 19 25.1	7 10.8	0.115280	4776	0 55.9
19	18 49 37.84	6 47.04	25 12 14.3	8 42.2	0.110504	5093	0 58.8
20	18 56 24.88	6 43.81	25 3 32.1	10 13.4	0.105411	5425	1 1.6
21	19 3 8.69	6 39.90	24 53 18.7	11 44.0	0.099986	5776	1 4.4
22	19 9 48.59	6 35.18	24 41 34.7	13 13.4	0.094210	6144	1 7.2
23	19 16 23.77	6 29.58	−24 28 21.3	14 41.3	0.088066	6532	1 9.8
24	19 22 53.35	6 22.96	24 13 40.0	16 7.0	0.081534	6940	1 12.3
25	19 29 16.31	6 15.20	23 57 33.0	17 29.8	0.074594	7367	1 14.8
26	19 35 31.51	6 6.15	23 40 3.2	18 48.9	0.067227	7815	1 17.1
27	19 41 37.66	5 55.63	23 21 14.3	20 3.3	0.059412	8282	1 19.2
28	19 47 33.29	5 43.49	−23 1 11.0	21 12.0	0.051130	8767	1 21.2
29	19 53 16.78	5 29.47	22 39 59.0	22 13.7	0.042363	9267	1 23.0
30	19 58 46.25	5 13.40	22 17 45.3	23 6.9	0.033096	9780	1 24.5
31	20 3 59.65	4 55.01	21 54 38.4	23 50.2	0.023316	10299	1 25.8
32	20 8 54.66		21 30 48.2		0.013017		1 26.7

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Tag		Scheinbare Rektaszension h m s	m s	Scheinbare Deklination ° ′ ″	′ ″	log Δ		Zeit der oberen Kulmination h m
Jan.	1	20 39 32.05	5 6.53	−20 10 44.8	18 58.4	0.159550	1369	2 0.4
	2	20 44 38.58	5 5.18	19 51 46.4	19 32.2	0.158181	1384	2 1.5
	3	20 49 43.76	5 3.82	19 32 14.2	20 5.4	0.156797	1399	2 2.7
	4	20 54 47.58	5 2.44	19 12 8.8	20 37.7	0.155398	1413	2 3.8
	5	20 59 50.02	5 1.05	18 51 31.1	21 9.3	0.153985	1429	2 4.9
	6	21 4 51.07	4 59.65	−18 30 21.8	21 40.2	0.152556	1444	2 6.0
	7	21 9 50.72	4 58.25	18 8 41.6	22 10.2	0.151112	1460	2 7.0
	8	21 14 48.97	4 56.85	17 46 31.4	22 39.4	0.149652	1476	2 8.0
	9	21 19 45.82	4 55.46	17 23 52.0	23 7.9	0.148176	1491	2 9.0
	10	21 24 41.28	4 54.06	17 0 44.1	23 35.6	0.146685	1507	2 10.0
	11	21 29 35.34	4 52.67	−16 37 8.5	24 2.4	0.145178	1523	2 11.0
	12	21 34 28.01	4 51.28	16 13 6.1	24 28.6	0.143655	1539	2 11.9
	13	21 39 19.29	4 49.92	15 48 37.5	24 53.8	0.142116	1555	2 12.8
	14	21 44 9.21	4 48.56	15 23 43.7	25 18.3	0.140561	1572	2 13.7
	15	21 48 57.77	4 47.22	14 58 25.4	25 41.9	0.138989	1588	2 14.6
	16	21 53 44.99	4 45.89	−14 32 43.5	26 4.9	0.137401	1604	2 15.4
	17	21 58 30.88	4 44.60	14 6 38.6	26 26.9	0.135797	1620	2 16.2
	18	22 3 15.48	4 43.31	13 40 11.7	26 48.3	0.134177	1638	2 17.0
	19	22 7 58.79	4 42.06	13 13 23.4	27 8.8	0.132539	1654	2 17.8
	20	22 12 40.85	4 40.83	12 46 14.6	27 28.6	0.130885	1671	2 18.6
	21	22 17 21.68	4 39.62	−12 18 46.0	27 47.5	0.129214	1688	2 19.3
	22	22 22 1.30	4 38.45	11 50 58.5	28 5.7	0.127526	1705	2 20.0
	23	22 26 39.75	4 37.30	11 22 52.8	28 23.1	0.125821	1723	2 20.7
	24	22 31 17.05	4 36.19	10 54 29.7	28 39.8	0.124098	1741	2 21.4
	25	22 35 53.24	4 35.11	10 25 49.9	28 55.8	0.122357	1758	2 22.1
	26	22 40 28.35	4 34.06	− 9 56 54.1	29 10.8	0.120599	1776	2 22.7
	27	22 45 2.41	4 33.05	9 27 43.3	29 25.2	0.118823	1795	2 23.3
	28	22 49 35.46	4 32.06	8 58 18.1	29 38.8	0.117028	1813	2 23.9
	29	22 54 7.52	4 31.12	8 28 39.3	29 51.7	0.115215	1833	2 24.5
	30	22 58 38.64	4 30.20	7 58 47.6	30 3.7	0.113382	1851	2 25.1
	31	23 3 8.84	4 29.33	− 7 28 43.9	30 15.0	0.111531	1872	2 25.7
Febr.	1	23 7 38.17	4 28.49	6 58 28.9	30 25.6	0.109659	1891	2 26.2
	2	23 12 6.66	4 27.68	6 28 3.3	30 35.3	0.107768	1912	2 26.7
	3	23 16 34.34	4 26.90	5 57 28.0	30 44.2	0.105856	1932	2 27.3
	4	23 21 1.24	4 26.16	5 26 43.8	30 52.4	0.103924	1953	2 27.8
	5	23 25 27.40	4 25.46	− 4 55 51.4	30 59.9	0.101971	1975	2 28.2
	6	23 29 52.86	4 24.78	4 24 51.5	31 6.5	0.099996	1996	2 28.7
	7	23 34 17.64	4 24.15	3 53 45.0	31 12.4	0.098000	2018	2 29.2
	8	23 38 41.79	4 23.54	3 22 32.6	31 17.5	0.095982	2040	2 29.7
	9	23 43 5.33		2 51 15.1		0.093942		2 30.1

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Febr.	8	23 38 41.79	4 23.54	− 3 22 32.6	31 17.5	0.095982	2040	2 29.7
	9	23 43 5.33	4 22.96	2 51 15.1	31 21.9	0.093942	2062	2 30.1
	10	23 47 28.29	4 22.43	2 19 53.2	31 25.5	0.091880	2085	2 30.5
	11	23 51 50.72	4 21.93	1 48 27.7	31 28.3	0.089795	2107	2 31.0
	12	23 56 12.65	4 21.47	1 16 59.4	31 30.5	0.087688	2130	2 31.4
	13	0 0 34.12	4 21.04	− 0 45 28.9	31 31.9	0.085558	2153	2 31.8
	14	0 4 55.16	4 20.66	− 0 13 57.0	31 32.6	0.083405	2176	2 32.2
	15	0 9 15.82	4 20.30	+ 0 17 35.6	31 32.6	0.081229	2200	2 32.6
	16	0 13 36.12	4 19.99	0 49 8.2	31 31.9	0.079029	2223	2 33.0
	17	0 17 56.11	4 19.70	1 20 40.1	31 30.4	0.076806	2247	2 33.4
	18	0 22 15.81	4 19.47	+ 1 52 10.5	31 28.2	0.074559	2272	2 33.8
	19	0 26 35.28	4 19.26	2 23 38.7	31 25.4	0.072287	2296	2 34.2
	20	0 30 54.54	4 19.10	2 55 4.1	31 21.9	0.069991	2320	2 34.6
	21	0 35 13.64	4 18.96	3 26 26.0	31 17.7	0.067671	2346	2 34.9
	22	0 39 32.60	4 18.87	3 57 43.7	31 12.7	0.065325	2370	2 35.3
	23	0 43 51.47	4 18.81	+ 4 28 56.4	31 7.2	0.062955	2396	2 35.7
	24	0 48 10.28	4 18.80	5 0 3.6	31 0.9	0.060559	2422	2 36.0
	25	0 52 29.08	4 18.81	5 31 4.5	30 54.0	0.058137	2449	2 36.4
	26	0 56 47.89	4 18.85	6 1 58.5	30 46.3	0.055688	2475	2 36.8
	27	1 1 6.74	4 18.94	6 32 44.8	30 38.0	0.053213	2502	2 37.2
	28	1 5 25.68	4 19.06	+ 7 3 22.8	30 29.0	0.050711	2530	2 37.5
	29	1 9 44.74	4 19.20	7 33 51.8	30 19.2	0.048181	2558	2 37.9
März	1	1 14 3.94	4 19.37	8 4 11.0	30 8.9	0.045623	2587	2 38.3
	2	1 18 23.31	4 19.57	8 34 19.9	29 57.7	0.043036	2616	2 38.7
	3	1 22 42.88	4 19.80	9 4 17.6	29 45.8	0.040420	2645	2 39.0
	4	1 27 2.68	4 20.04	+ 9 34 3.4	29 33.3	0.037775	2676	2 39.4
	5	1 31 22.72	4 20.30	10 3 36.7	29 19.9	0.035099	2707	2 39.8
	6	1 35 43.02	4 20.60	10 32 56.6	29 6.0	0.032392	2737	2 40.2
	7	1 40 3.62	4 20.89	11 2 2.6	28 51.3	0.029655	2769	2 40.6
	8	1 44 24.51	4 21.22	11 30 53.9	28 35.9	0.026886	2801	2 41.0
	9	1 48 45.73	4 21.54	+11 59 29.8	28 19.8	0.024085	2833	2 41.4
	10	1 53 7.27	4 21.90	12 27 49.6	28 3.1	0.021252	2865	2 41.9
	11	1 57 29.17	4 22.26	12 55 52.7	27 45.7	0.018387	2899	2 42.3
	12	2 1 51.43	4 22.64	13 23 38.4	27 27.6	0.015488	2931	2 42.7
	13	2 6 14.07	4 23.02	13 51 6.0	27 8.8	0.012557	2966	2 43.1
	14	2 10 37.09	4 23.41	+14 18 14.8	26 49.3	0.009591	3000	2 43.6
	15	2 15 0.50	4 23.81	14 45 4.1	26 29.2	0.006591	3034	2 44.0
	16	2 19 24.31	4 24.22	15 11 33.3	26 8.6	0.003557	3069	2 44.5
	17	2 23 48.53	4 24.62	15 37 41.9	25 47.1	0.000488	3104	2 45.0
	18	2 28 13.15		16 3 29.0		9.997384		2 45.4

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
März 17	2 23 48.53	4 24.62	+15 37 41.9	25 47.1	0.000488	3104	2 45.0
18	2 28 13.15	4 25.04	16 3 29.0	25 25.2	9.997384	3140	2 45.4
19	2 32 38.19	4 25.45	16 28 54.2	25 2.6	9.994244	3175	2 45.9
20	2 37 3.64	4 25.86	16 53 56.8	24 39.4	9.991069	3212	2 46.4
21	2 41 29.50	4 26.27	17 18 36.2	24 15.6	9.987857	3248	2 46.9
22	2 45 55.77	4 26.69	+17 42 51.8	23 51.2	9.984609	3286	2 47.4
23	2 50 22.46	4 27.09	18 6 43.0	23 26.3	9.981323	3323	2 47.9
24	2 54 49.55	4 27.50	18 30 9.3	23 0.7	9.978000	3362	2 48.4
25	2 59 17.05	4 27.88	18 53 10.0	22 34.6	9.974638	3400	2 48.9
26	3 3 44.93	4 28.26	19 15 44.6	22 7.9	9.971238	3439	2 49.4
27	3 8 13.19	4 28.62	+19 37 52.5	21 40.8	9.967799	3480	2 50.0
28	3 12 41.81	4 28.97	19 59 33.3	21 13.0	9.964319	3520	2 50.5
29	3 17 10.78	4 29.28	20 20 46.3	20 44.8	9.960799	3562	2 51.0
30	3 21 40.06	4 29.56	20 41 31.1	20 15.9	9.957237	3603	2 51.6
31	3 26 9.62	4 29.82	21 1 47.0	19 46.6	9.953634	3647	2 52.1
April 1	3 30 39.44	4 30.05	+21 21 33.6	19 16.7	9.949987	3690	2 52.7
2	3 35 9.49	4 30.22	21 40 50.3	18 46.5	9.946297	3735	2 53.2
3	3 39 39.71	4 30.36	21 59 36.8	18 15.6	9.942562	3779	2 53.8
4	3 44 10.07	4 30.45	22 17 52.4	17 44.4	9.938783	3825	2 54.4
5	3 48 40.52	4 30.49	22 35 36.8	17 12.8	9.934958	3871	2 54.9
6	3 53 11.01	4 30.47	+22 52 49.6	16 40.7	9.931087	3919	2 55.5
7	3 57 41.48	4 30.39	23 9 30.3	16 8.2	9.927168	3965	2 56.1
8	4 2 11.87	4 30.26	23 25 38.5	15 35.4	9.923203	4014	2 56.6
9	4 6 42.13	4 30.05	23 41 13.9	15 2.3	9.919189	4063	2 57.2
10	4 11 12.18	4 29.79	23 56 16.2	14 28.9	9.915126	4112	2 57.7
11	4 15 41.97	4 29.45	+24 10 45.1	13 55.2	9.911014	4162	2 58.3
12	4 20 11.42	4 29.04	24 24 40.3	13 21.3	9.906852	4213	2 58.9
13	4 24 40.46	4 28.54	24 38 1.6	12 47.1	9.902639	4263	2 59.4
14	4 29 9.00	4 27.98	24 50 48.7	12 12.7	9.898376	4316	2 59.9
15	4 33 36.98	4 27.32	25 3 1.4	11 38.1	9.894060	4367	3 0.4
16	4 38 4.30	4 26.59	+25 14 39.5	11 3.5	9.889693	4420	3 1.0
17	4 42 30.89	4 25.78	25 25 43.0	10 28.7	9.885273	4473	3 1.5
18	4 46 56.67	4 24.88	25 36 11.7	9 53.9	9.880800	4526	3 1.9
19	4 51 21.55	4 23.88	25 46 5.6	9 19.0	9.876274	4581	3 2.4
20	4 55 45.43	4 22.80	25 55 24.6	8 44.2	9.871693	4635	3 2.9
21	5 0 8.23	4 21.62	+26 4 8.8	8 9.3	9.867058	4691	3 3.3
22	5 4 29.85	4 20.35	26 12 18.1	7 34.5	9.862367	4746	3 3.7
23	5 8 50.20	4 18.98	26 19 52.6	6 59.7	9.857621	4804	3 4.1
24	5 13 9.18	4 17.52	26 26 52.3	6 25.1	9.852817	4861	3 4.5
25	5 17 26.70		26 33 17.4		9.847956		3 4.8

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Tag	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	log Δ	Diff.	Zeit der oberen Kulmination h m
April 24	5 13 9.18	4 17.52	+26 26 52.3	6 25.1	9.852817	4861	3 4.5
25	5 17 26.70	4 15.95	26 33 17.4	5 50.5	9.847956	4919	3 4.8
26	5 21 42.65	4 14.26	26 39 7.9	5 16.2	9.843037	4978	3 5.1
27	5 25 56.91	4 12.46	26 44 24.1	4 42.0	9.838059	5038	3 5.4
28	5 30 9.37	4 10.55	26 49 6.1	4 8.1	9.833021	5099	3 5.7
29	5 34 19.92	4 8.51	+26 53 14.2	3 34.5	9.827922	5161	3 5.9
30	5 38 28.43	4 6.34	26 56 48.7	3 1.1	9.822761	5223	3 6.1
Mai 1	5 42 34.77	4 4.05	26 59 49.8	2 28.0	9.817538	5286	3 6.3
2	5 46 38.82	4 1.62	27 2 17.8	1 55.4	9.812252	5350	3 6.4
3	5 50 40.44	3 59.04	27 4 13.2	1 23.2	9.806902	5414	3 6.5
4	5 54 39.48	3 56.33	+27 5 36.4	0 51.4	9.801488	5479	3 6.5
5	5 58 35.81	3 53.48	27 6 27.8	0 20.0	9.796009	5545	3 6.5
6	6 2 29.29	3 50.47	27 6 47.8	0 10.8	9.790464	5611	3 6.4
7	6 6 19.76	3 47.31	27 6 37.0	0 41.1	9.784853	5677	3 6.3
8	6 10 7.07	3 43.99	27 5 55.9	1 10.9	9.779176	5744	3 6.2
9	6 13 51.06	3 40.51	+27 4 45.0	1 39.9	9.773432	5810	3 6.0
10	6 17 31.57	3 36.88	27 3 5.1	2 8.4	9.767622	5878	3 5.7
11	6 21 8.45	3 33.08	27 0 56.7	2 36.2	9.761744	5944	3 5.3
12	6 24 41.53	3 29.11	26 58 20.5	3 3.4	9.755800	6011	3 4.9
13	6 28 10.64	3 24.97	26 55 17.1	3 29.8	9.749789	6077	3 4.5
14	6 31 35.61	3 20.65	+26 51 47.3	3 55.4	9.743712	6143	3 3.9
15	6 34 56.26	3 16.16	26 47 51.9	4 20.5	9.737569	6209	3 3.3
16	6 38 12.42	3 11.50	26 43 31.4	4 44.6	9.731360	6272	3 2.7
17	6 41 23.92	3 6.65	26 38 46.8	5 8.1	9.725088	6336	3 1.9
18	6 44 30.57	3 1.63	26 33 38.7	5 30.6	9.718752	6398	3 1.0
19	6 47 32.20	2 56.43	+26 28 8.1	5 52.4	9.712354	6459	3 0.1
20	6 50 28.63	2 51.04	26 22 15.7	6 13.4	9.705895	6519	2 59.1
21	6 53 19.67	2 45.47	26 16 2.3	6 33.6	9.699376	6577	2 58.0
22	6 56 5.14	2 39.70	26 9 28.7	6 52.9	9.692799	6633	2 56.8
23	6 58 44.84	2 33.74	26 2 35.8	7 11.4	9.686166	6688	2 55.5
24	7 1 18.58	2 27.55	+25 55 24.4	7 29.0	9.679478	6740	2 54.1
25	7 3 46.13	2 21.17	25 47 55.4	7 45.8	9.672738	6790	2 52.6
26	7 6 7.30	2 14.56	25 40 9.6	8 1.8	9.665948	6836	2 51.0
27	7 8 21.86	2 7.74	25 32 7.8	8 16.6	9.659112	6881	2 49.3
28	7 10 29.60	2 0.67	25 23 51.2	8 30.8	9.652231	6920	2 47.5
29	7 12 30.27	1 53.36	+25 15 20.4	8 44.0	9.645311	6956	2 45.5
30	7 14 23.63	1 45.82	25 6 36.4	8 56.5	9.638355	6987	2 43.5
31	7 16 9.45	1 38.04	24 57 39.9	9 8.0	9.631368	7012	2 41.3
Juni 1	7 17 47.49	1 30.01	24 48 31.9	9 18.6	9.624356	7032	2 39.0
2	7 19 17.50		24 39 13.3		9.617324		2 36.5

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Tag		Scheinbare Rektaszension h m s	m s	Scheinbare Deklination ° ′ ″	′ ″	log Δ		Zeit der oberen Kulmination h m
Juni	1	7 17 47.49	1 30.01	+24 48 31.9	9 18.6	9.624356	7032	2 39.0
	2	7 19 17.50	1 21.72	24 39 13.3	9 28.3	9.617324	7045	2 36.5
	3	7 20 39.22	1 13.19	24 29 45.0	9 37.2	9.610279	7050	2 33.9
	4	7 21 52.41	1 4.40	24 20 7.8	9 45.4	9.603229	7046	2 31.2
	5	7 22 56.81	0 55.39	24 10 22.4	9 52.8	9.596183	7034	2 28.3
	6	7 23 52.20	0 46.12	+24 0 29.6	9 59.4	9.589149	7011	2 25.3
	7	7 24 38.32	0 36.63	23 50 30.2	10 5.4	9.582138	6978	2 22.1
	8	7 25 14.95	0 26.91	23 40 24.8	10 10.6	9.575160	6931	2 18.8
	9	7 25 41.86	0 17.02	23 30 14.2	10 15.1	9.568229	6872	2 15.3
	10	7 25 58.88	0 6.93	23 19 59.1	10 19.1	9.561357	6798	2 11.6
	11	7 26 5.81	0 3.31	+23 9 40.0	10 22.5	9.554559	6709	2 7.8
	12	7 26 2.50	0 13.67	22 59 17.5	10 25.4	9.547850	6602	2 3.8
	13	7 25 48.83	0 24.12	22 48 52.1	10 28.1	9.541248	6478	1 59.6
	14	7 25 24.71	0 34.60	22 38 24.0	10 30.2	9.534770	6336	1 55.3
	15	7 24 50.11	0 45.09	22 27 53.8	10 32.1	9.528434	6172	1 50.7
	16	7 24 5.02	0 55.51	+22 17 21.7	10 33.6	9.522262	5989	1 46.0
	17	7 23 9.51	1 5.82	22 6 48.1	10 34.9	9.516273	5785	1 41.2
	18	7 22 3.69	1 15.95	21 56 13.2	10 36.0	9.510488	5559	1 36.1
	19	7 20 47.74	1 25.85	21 45 37.2	10 36.7	9.504929	5311	1 31.0
	20	7 19 21.89	1 35.45	21 35 0.5	10 37.1	9.499618	5041	1 25.6
	21	7 17 46.44	1 44.68	+21 24 23.4	10 37.3	9.494577	4749	1 20.1
	22	7 16 1.76	1 53.46	21 13 46.1	10 36.9	9.489828	4436	1 14.4
	23	7 14 8.30	2 1.74	21 3 9.2	10 36.1	9.485392	4100	1 8.6
	24	7 12 6.56	2 9.44	20 52 33.1	10 34.6	9.481292	3744	1 2.6
	25	7 9 57.12	2 16.48	20 41 58.5	10 32.4	9.477548	3369	0 56.5
	26	7 7 40.64	2 22.81	+20 31 26.1	10 29.4	9.474179	2976	0 50.3
	27	7 5 17.83	2 28.35	20 20 56.7	10 25.3	9.471203	2566	0 44.1
	28	7 2 49.48	2 33.05	20 10 31.4	10 20.0	9.468637	2142	0 37.7
	29	7 0 16.43	2 36.85	20 0 11.4	10 13.5	9.466495	1703	0 31.2
	30	6 57 39.58	2 39.71	19 49 57.9	10 5.4	9.464792	1255	0 24.7
Juli	1	6 54 59.87	2 41.60	+19 39 52.5	9 55.9	9.463537	801	0 18.1
	2	6 52 18.27	2 42.50	19 29 56.6	9 44.6	9.462736	342	0 11.5
	3	6 49 35.77	2 42.39	19 20 12.0	9 31.5	9.462394	119	{ 0 4.9 23 58.2
	4	6 46 53.38	2 41.29	19 10 40.5	9 16.5	9.462513	580	23 51.7
	5	6 44 12.09	2 39.19	19 1 24.0	8 59.7	9.463093	1035	23 45.1
	6	6 41 32.90	2 36.15	+18 52 24.3	8 41.1	9.464128	1485	23 38.6
	7	6 38 56.75	2 32.16	18 43 43.2	8 20.5	9.465613	1925	23 32.1
	8	6 36 24.59	2 27.31	18 35 22.7	7 58.2	9.467538	2352	23 25.7
	9	6 33 57.28	2 21.63	18 27 24.5	7 34.2	9.469890	2766	23 19.5
	10	6 31 35.65		18 19 50.3		9.472656		23 13.3

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Juli	9	6 33 57.28	2 21.63	+18 27 24.5	7 34.2	9.469890	2766	23 19.5
	10	6 31 35.65	2 15.19	18 19 50.3	7 8.8	9.472656	3162	23 13.3
	11	6 29 20.46	2 8.06	18 12 41.5	6 42.0	9.475818	3541	23 7.2
	12	6 27 12.40	2 0.28	18 5 59.5	6 14.0	9.479359	3901	23 1.3
	13	6 25 12.12	1 51.95	17 59 45.5	5 45.2	9.483260	4239	22 55.5
	14	6 23 20.17	1 43.14	+17 54 0.3	5 15.8	9.487499	4555	22 49.9
	15	6 21 37.03	1 33.94	17 48 44.5	4 45.9	9.492054	4849	22 44.4
	16	6 20 3.09	1 24.41	17 43 58.6	4 15.7	9.496903	5120	22 39.0
	17	6 18 38.68	1 14.63	17 39 42.9	3 45.6	9.502023	5368	22 33.9
	18	6 17 24.05	1 4.67	17 35 57.3	3 15.8	9.507391	5593	22 28.9
	19	6 16 19.38	0 54.60	+17 32 41.5	2 46.4	9.512984	5796	22 24.0
	20	6 15 24.78	0 44.47	17 29 55.1	2 17.5	9.518780	5978	22 19.3
	21	6 14 40.31	0 34.36	17 27 37.6	1 49.4	9.524758	6140	22 14.8
	22	6 14 5.95	0 24.28	17 25 48.2	1 22.4	9.530898	6281	22 10.5
	23	6 13 41.67	0 14.30	17 24 25.8	0 56.5	9.537179	6404	22 6.3
	24	6 13 27.37	0 4.43	+17 23 29.3	0 31.7	9.543583	6510	22 2.3
	25	6 13 22.94	0 5.27	17 22 57.6	0 8.3	9.550093	6600	21 58.4
	26	6 13 28.21	0 14.80	17 22 49.3	0 13.8	9.556693	6675	21 54.7
	27	6 13 43.01	0 24.14	17 23 3.1	0 34.4	9.563368	6735	21 51.2
	28	6 14 7.15	0 33.26	17 23 37.5	0 53.4	9.570103	6783	21 47.8
	29	6 14 40.41	0 42.18	+17 24 30.9	1 11.0	9.576886	6820	21 44.5
	30	6 15 22.59	0 50.85	17 25 41.9	1 26.8	9.583706	6844	21 41.4
	31	6 16 13.44	0 59.29	17 27 8.7	1 41.1	9.590550	6860	21 38.5
Aug.	1	6 17 12.73	1 7.49	17 28 49.8	1 53.8	9.597410	6867	21 35.6
	2	6 18 20.22	1 15.45	17 30 43.6	2 4.7	9.604277	6865	21 32.9
	3	6 19 35.67	1 23.16	+17 32 48.3	2 14.0	9.611142	6856	21 30.4
	4	6 20 58.83	1 30.65	17 35 2.3	2 21.7	9.617998	6841	21 27.9
	5	6 22 29.48	1 37.90	17 37 24.0	2 27.8	9.624839	6819	21 25.6
	6	6 24 7.38	1 44.92	17 39 51.8	2 32.3	9.631658	6793	21 23.4
	7	6 25 52.30	1 51.71	17 42 24.1	2 35.2	9.638451	6762	21 21.3
	8	6 27 44.01	1 58.30	+17 44 59.3	2 36.6	9.645213	6726	21 19.3
	9	6 29 42.31	2 4.66	17 47 35.9	2 36.4	9.651939	6687	21 17.5
	10	6 31 46.97	2 10.81	17 50 12.3	2 34.6	9.658626	6643	21 15.7
	11	6 33 57.78	2 16.77	17 52 46.9	2 31.5	9.665269	6598	21 14.0
	12	6 36 14.55	2 22.54	17 55 18.4	2 26.8	9.671867	6549	21 12.5
	13	6 38 37.09	2 28.12	+17 57 45.2	2 20.7	9.678416	6497	21 11.0
	14	6 41 5.21	2 33.49	18 0 5.9	2 13.4	9.684913	6443	21 9.6
	15	6 43 38.70	2 38.67	18 2 19.3	2 4.6	9.691356	6387	21 8.3
	16	6 46 17.37	2 43.67	18 4 23.9	1 54.6	9.697743	6329	21 7.0
	17	6 49 1.04		18 6 18.5		9.704072		21 5.9

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Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Aug. 16	6 46 17.37	2 43.67	+18 4 23.9	1 54.6	9.697743	6329	21 7.0
17	6 49 1.04	2 48.48	18 6 18.5	1 43.3	9.704072	6271	21 5.9
18	6 51 49.52	2 53.12	18 8 1.8	1 30.9	9.710343	6209	21 4.9
19	6 54 42.64	2 57.57	18 9 32.7	1 17.5	9.716552	6148	21 3.8
20	6 57 40.21	3 1.85	18 10 50.2	1 2.9	9.722700	6085	21 2.9
21	7 0 42.06	3 5.95	+18 11 53.1	0 47.3	9.728785	6022	21 2.1
22	7 3 48.01	3 9.90	18 12 40.4	0 30.8	9.734807	5959	21 1.3
23	7 6 57.91	3 13.68	18 13 11.2	0 13.4	9.740766	5896	21 0.6
24	7 10 11.59	3 17.32	18 13 24.6	0 4.9	9.746662	5832	20 59.9
25	7 13 28.91	3 20.80	18 13 19.7	0 24.1	9.752494	5768	20 59.3
26	7 16 49.71	3 24.14	+18 12 55.6	0 44.0	9.758262	5705	20 58.7
27	7 20 13.85	3 27.34	18 12 11.6	1 4.7	9.763967	5642	20 58.3
28	7 23 41.19	3 30.40	18 11 6.9	1 26.1	9.769609	5579	20 57.8
29	7 27 11.59	3 33.33	18 9 40.8	1 48.1	9.775188	5516	20 57.4
30	7 30 44.92	3 36.13	18 7 52.7	2 10.8	9.780704	5455	20 57.1
31	7 34 21.05	3 38.82	+18 5 41.9	2 34.0	9.786159	5394	20 56.8
Sept. 1	7 37 59.87	3 41.37	18 3 7.9	2 57.9	9.791553	5334	20 56.5
2	7 41 41.24	3 43.83	18 0 10.0	3 22.2	9.796887	5274	20 56.3
3	7 45 25.07	3 46.17	17 56 47.8	3 47.0	9.802161	5215	20 56.1
4	7 49 11.24	3 48.41	17 53 0.8	4 12.4	9.807376	5156	20 56.0
5	7 52 59.65	3 50.55	+17 48 48.4	4 38.2	9.812532	5099	20 55.9
6	7 56 50.20	3 52.59	17 44 10.2	5 4.4	9.817631	5042	20 55.8
7	8 0 42.79	3 54.54	17 39 5.8	5 30.9	9.822673	4987	20 55.8
8	8 4 37.33	3 56.41	17 33 34.9	5 57.9	9.827660	4930	20 55.8
9	8 8 33.74	3 58.18	17 27 37.0	6 25.1	9.832590	4876	20 55.8
10	8 12 31.92	3 59.87	+17 21 11.9	6 52.7	9.837466	4821	20 55.8
11	8 16 31.79	4 1.49	17 14 19.2	7 20.5	9.842287	4767	20 55.9
12	8 20 33.28	4 3.02	17 6 58.7	7 48.4	9.847054	4714	20 56.0
13	8 24 36.30	4 4.46	16 59 10.3	8 16.7	9.851768	4661	20 56.2
14	8 28 40.76	4 5.82	16 50 53.6	8 44.9	9.856429	4608	20 56.3
15	8 32 46.58	4 7.11	+16 42 8.7	9 13.3	9.861037	4557	20 56.5
16	8 36 53.69	4 8.33	16 32 55.4	9 41.8	9.865594	4504	20 56.7
17	8 41 2.02	4 9.46	16 23 13.6	10 10.2	9.870098	4454	20 56.9
18	8 45 11.48	4 10.52	16 13 3.4	10 38.7	9.874552	4404	20 57.1
19	8 49 22.00	4 11.51	16 2 24.7	11 7.1	9.878956	4353	20 57.4
20	8 53 33.51	4 12.44	+15 51 17.6	11 35.4	9.883309	4304	20 57.6
21	8 57 45.95	4 13.30	15 39 42.2	12 3.7	9.887613	4256	20 57.9
22	9 1 59.25	4 14.10	15 27 38.5	12 31.7	9.891869	4207	20 58.2
23	9 6 13.35	4 14.83	15 15 6.8	12 59.6	9.896076	4161	20 58.5
24	9 10 28.18		15 2 7.2		9.900237		20 58.8

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Sept. 23	9 6 13.35	4 14.83	+15 15 6.8	12 59.6	9.896076	4161	20 58.5
24	9 10 28.18	4 15.50	15 2 7.2	13 27.3	9.900237	4113	20 58.8
25	9 14 43.68	4 16.12	14 48 39.9	13 54.8	9.904350	4068	20 59.1
26	9 18 59.80	4 16.69	14 34 45.1	14 22.1	9.908418	4022	20 59.5
27	9 23 16.49	4 17.21	14 20 23.0	14 49.1	9.912440	3977	20 59.8
28	9 27 33.70	4 17.68	+14 5 33.9	15 15.8	9.916417	3934	21 0.2
29	9 31 51.38	4 18.12	13 50 18.1	15 42.2	9.920351	3890	21 0.5
30	9 36 9.50	4 18.50	13 34 35.9	16 8.4	9.924241	3848	21 0.9
Okt. 1	9 40 28.00	4 18.86	13 18 27.5	16 34.2	9.928089	3806	21 1.3
2	9 44 46.86	4 19.18	13 1 53.3	16 59.6	9.931895	3765	21 1.6
3	9 49 6.04	4 19.47	+12 44 53.7	17 24.7	9.935660	3724	21 2.0
4	9 53 25.51	4 19.73	12 27 29.0	17 49.5	9.939384	3685	21 2.4
5	9 57 45.24	4 19.97	12 9 39.5	18 13.9	9.943069	3646	21 2.8
6	10 2 5.21	4 20.20	11 51 25.6	18 37.9	9.946715	3607	21 3.2
7	10 6 25.41	4 20.40	11 32 47.7	19 1.5	9.950322	3570	21 3.6
8	10 10 45.81	4 20.58	+11 13 46.2	19 24.7	9.953892	3531	21 4.0
9	10 15 6.39	4 20.76	10 54 21.5	19 47.5	9.957423	3495	21 4.4
10	10 19 27.15	4 20.91	10 34 34.0	20 9.9	9.960918	3458	21 4.8
11	10 23 48.06	4 21.06	10 14 24.1	20 31.7	9.964376	3422	21 5.2
12	10 28 9.12	4 21.19	9 53 52.4	20 53.1	9.967798	3385	21 5.6
13	10 32 30.31	4 21.33	+ 9 32 59.3	21 13.9	9.971183	3350	21 6.0
14	10 36 51.64	4 21.44	9 11 45.4	21 34.3	9.974533	3315	21 6.4
15	10 41 13.08	4 21.56	8 50 11.1	21 54.0	9.977848	3280	21 6.9
16	10 45 34.64	4 21.66	8 28 17.1	22 13.3	9.981128	3245	21 7.3
17	10 49 56.30	4 21.76	8 6 3.8	22 31.9	9.984373	3211	21 7.7
18	10 54 18.06	4 21.87	+ 7 43 31.9	22 49.9	9.987584	3176	21 8.1
19	10 58 39.93	4 21.95	7 20 42.0	23 7.4	9.990760	3143	21 8.5
20	11 3 1.88	4 22.06	6 57 34.6	23 24.2	9.993903	3110	21 9.0
21	11 7 23.94	4 22.16	6 34 10.4	23 40.4	9.997013	3077	21 9.4
22	11 11 46.10	4 22.26	6 10 30.0	23 56.0	0.000090	3044	21 9.8
23	11 16 8.36	4 22.36	+ 5 46 34.0	24 10.9	0.003134	3012	21 10.2
24	11 20 30.72	4 22.48	5 22 23.1	24 25.2	0.006146	2980	21 10.7
25	11 24 53.20	4 22.59	4 57 57.9	24 38.9	0.009126	2949	21 11.1
26	11 29 15.79	4 22.72	4 33 19.0	24 51.8	0.012075	2917	21 11.5
27	11 33 38.51	4 22.86	4 8 27.2	25 4.1	0.014992	2888	21 12.0
28	11 38 1.37	4 23.00	+ 3 43 23.1	25 15.7	0.017880	2857	21 12.4
29	11 42 24.37	4 23.16	3 18 7.4	25 26.7	0.020737	2827	21 12.9
30	11 46 47.53	4 23.34	2 52 40.7	25 37.0	0.023564	2799	21 13.3
31	11 51 10.87	4 23.54	2 27 3.7	25 46.6	0.026363	2769	21 13.8
Nov. 1	11 55 34.41		2 1 17.1		0.029132		21 14.2

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Okt.	31	11 51 10.87	4 23.54	+ 2 27 3.7	25 46.6	0.026363	2769	21 13.8
Nov.	1	11 55 34.41	4 23.75	2 1 17.1	25 55.6	0.029132	2742	21 14.2
	2	11 59 58.16	4 23.98	1 35 21.5	26 3.9	0.031874	2713	21 14.7
	3	12 4 22.14	4 24.25	1 9 17.6	26 11.6	0.034587	2687	21 15.1
	4	12 8 46.39	4 24.52	0 43 6.0	26 18.6	0.037274	2659	21 15.6
	5	12 13 10.91	4 24.83	+ 0 16 47.4	26 24.9	0.039933	2633	21 16.1
	6	12 17 35.74	4 25.17	— 0 9 37.5	26 30.6	0.042566	2606	21 16.6
	7	12 22 0.91	4 25.53	0 36 8.1	26 35.5	0.045172	2580	21 17.0
	8	12 26 26.44	4 25.91	1 2 43.6	26 39.8	0.047752	2554	21 17.5
	9	12 30 52.35	4 26.33	1 29 23.4	26 43.3	0.050306	2529	21 18.0
	10	12 35 18.68	4 26.78	— 1 56 6.7	26 46.2	0.052835	2503	21 18.5
	11	12 39 45.46	4 27.24	2 22 52.9	26 48.3	0.055338	2477	21 19.0
	12	12 44 12.70	4 27.74	2 49 41.2	26 49.6	0.057815	2453	21 19.5
	13	12 48 40.44	4 28.26	3 16 30.8	26 50.3	0.060268	2427	21 20.1
	14	12 53 8.70	4 28.81	3 43 21.1	26 50.2	0.062695	2403	21 20.6
	15	12 57 37.51	4 29.39	— 4 10 11.3	26 49.2	0.065098	2378	21 21.2
	16	13 2 6.90	4 30.00	4 37 0.5	26 47.7	0.067476	2354	21 21.7
	17	13 6 36.90	4 30.62	5 3 48.2	26 45.2	0.069830	2330	21 22.3
	18	13 11 7.52	4 31.28	5 30 33.4	26 42.1	0.072160	2305	21 22.9
	19	13 15 38.80	4 31.97	5 57 15.5	26 38.1	0.074465	2282	21 23.5
	20	13 20 10.77	4 32.68	— 6 23 53.6	26 33.5	0.076747	2258	21 24.0
	21	13 24 43.45	4 33.41	6 50 27.1	26 27.9	0.079005	2235	21 24.7
	22	13 29 16.86	4 34.17	7 16 55.0	26 21.6	0.081240	2211	21 25.3
	23	13 33 51.03	4 34.96	7 43 16.6	26 14.5	0.083451	2188	21 25.9
	24	13 38 25.99	4 35.76	8 9 31.1	26 6.6	0.085639	2165	21 26.6
	25	13 43 1.75	4 36.59	— 8 35 37.7	25 57.9	0.087804	2143	21 27.2
	26	13 47 38.34	4 37.44	9 1 35.6	25 48.4	0.089947	2121	21 27.9
	27	13 52 15.78	4 38.32	9 27 24.0	25 38.1	0.092068	2099	21 28.6
	28	13 56 54.10	4 39.22	9 53 2.1	25 27.1	0.094167	2077	21 29.3
	29	14 1 33.32	4 40.14	10 18 29.2	25 15.2	0.096244	2056	21 30.1
	30	14 6 13.46	4 41.09	—10 43 44.4	25 2.6	0.098300	2035	21 30.8
Dez.	1	14 10 54.55	4 42.07	11 8 47.0	24 49.2	0.100335	2015	21 31.6
	2	14 15 36.62	4 43.06	11 33 36.2	24 35.0	0.102350	1994	21 32.3
	3	14 20 19.68	4 44.08	11 58 11.2	24 20.1	0.104344	1974	21 33.1
	4	14 25 3.76	4 45.13	12 22 31.3	24 4.4	0.106318	1954	21 33.9
	5	14 29 48.89	4 46.19	—12 46 35.7	23 47.8	0.108272	1935	21 34.8
	6	14 34 35.08	4 47.29	13 10 23.5	23 30.5	0.110207	1915	21 35.6
	7	14 39 22.37	4 48.39	13 33 54.0	23 12.4	0.112122	1896	21 36.5
	8	14 44 10.76	4 49.52	13 57 6.4	22 53.5	0.114018	1877	21 37.3
	9	14 49 0.28		14 19 59.9		0.115895		21 38.2

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Dez. 8	14 44 10.76	4 49.52	−13 57 6.4	22 53.5	0.114018	1877	21 37.3
9	14 49 0.28	4 50.65	14 19 59.9	22 33.8	0.115895	1858	21 38.2
10	14 53 50.93	4 51.82	14 42 33.7	22 13.2	0.117753	1839	21 39.2
11	14 58 42.75	4 52.98	15 4 46.9	21 52.0	0.119592	1821	21 40.1
12	15 3 35.73	4 54.16	15 26 38.9	21 29.9	0.121413	1801	21 41.1
13	15 8 29.89	4 55.36	−15 48 8.8	21 7.1	0.123214	1784	21 42.0
14	15 13 25.25	4 56.55	16 9 15.9	20 43.3	0.124998	1764	21 43.0
15	15 18 21.80	4 57.74	16 29 59.2	20 18.9	0.126762	1747	21 44.1
16	15 23 19.54	4 58.95	16 50 18.1	19 53.6	0.128509	1728	21 45.1
17	15 28 18.49	5 0.15	17 10 11.7	19 27.6	0.130237	1710	21 46.2
18	15 33 18.64	5 1.35	−17 29 39.3	19 0.8	0.131947	1692	21 47.2
19	15 38 19.99	5 2.54	17 48 40.1	18 33.2	0.133639	1674	21 48.3
20	15 43 22.53	5 3.74	18 7 13.3	18 4.9	0.135313	1656	21 49.5
21	15 48 26.27	5 4.90	18 25 18.2	17 35.8	0.136969	1639	21 50.6
22	15 53 31.17	5 6.07	18 42 54.0	17 6.0	0.138608	1621	21 51.7
23	15 58 37.24	5 7.21	−19 0 0.0	16 35.5	0.140229	1603	21 52.9
24	16 3 44.45	5 8.34	19 16 35.5	16 4.2	0.141832	1587	21 54.1
25	16 8 52.79	5 9.44	19 32 39.7	15 32.3	0.143419	1569	21 55.3
26	16 14 2.23	5 10.53	19 48 12.0	14 59.7	0.144988	1552	21 56.6
27	16 19 12.76	5 11.58	20 3 11.7	14 26.5	0.146540	1536	21 57.8
28	16 24 24.34	5 12.62	−20 17 38.2	13 52.5	0.148076	1520	21 59.1
29	16 29 36.96	5 13.63	20 31 30.7	13 18.1	0.149596	1503	22 0.4
30	16 34 50.59	5 14.60	20 44 48.8	12 42.9	0.151099	1488	22 1.7
31	16 40 5.19	5 15.55	20 57 31.7	12 7.3	0.152587	1472	22 3.0
32	16 45 20.74		21 9 39.0		0.154059		22 4.3

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Jan.	1	10 12 48.01	0 0.22	+14 50 16.4	2 28.9	9.916987	3591	15 31.0
	2	10 12 48.23	0 2.82	14 52 45.3	2 45.6	9.913396	3566	15 27.0
	3	10 12 45.41	0 5.91	14 55 30.9	3 2.4	9.909830	3538	15 23.0
	4	10 12 39.50	0 9.02	14 58 33.3	3 19.0	9.906292	3506	15 18.9
	5	10 12 30.48	0 12.16	15 1 52.3	3 35.7	9.902786	3471	15 14.8
	6	10 12 18.32	0 15.31	+15 5 28.0	3 52.1	9.899315	3432	15 10.7
	7	10 12 3.01	0 18.48	15 9 20.1	4 8.6	9.895883	3390	15 6.4
	8	10 11 44.53	0 21.66	15 13 28.7	4 24.7	9.892493	3344	15 2.2
	9	10 11 22.87	0 24.84	15 17 53.4	4 40.8	9.889149	3294	14 57.9
	10	10 10 58.03	0 28.03	15 22 34.2	4 56.5	9.885855	3241	14 53.5
	11	10 10 30.00	0 31.22	+15 27 30.7	5 12.0	9.882614	3184	14 49.0
	12	10 9 58.78	0 34.39	15 32 42.7	5 27.1	9.879430	3124	14 44.6
	13	10 9 24.39	0 37.57	15 38 9.8	5 41.8	9.876306	3058	14 40.0
	14	10 8 46.82	0 40.73	15 43 51.6	5 56.2	9.873248	2990	14 35.5
	15	10 8 6.09	0 43.87	15 49 47.8	6 10.1	9.870258	2918	14 30.8
	16	10 7 22.22	0 46.98	+15 55 57.9	6 23.5	9.867340	2842	14 26.1
	17	10 6 35.24	0 50.07	16 2 21.4	6 36.5	9.864498	2760	14 21.4
	18	10 5 45.17	0 53.13	16 8 57.9	6 48.8	9.861738	2677	14 16.6
	19	10 4 52.04	0 56.14	16 15 46.7	7 0.6	9.859061	2587	14 11.8
	20	10 3 55.90	0 59.11	16 22 47.3	7 11.8	9.856474	2495	14 6.9
	21	10 2 56.79	1 2.01	+16 29 59.1	7 22.3	9.853979	2398	14 1.9
	22	10 1 54.78	1 4.87	16 37 21.4	7 32.0	9.851581	2296	13 56.9
	23	10 0 49.91	1 7.65	16 44 53.4	7 41.0	9.849285	2192	13 51.9
	24	9 59 42.26	1 10.35	16 52 34.4	7 49.2	9.847093	2083	13 46.8
	25	9 58 31.91	1 12.97	17 0 23.6	7 56.6	9.845010	1970	13 41.7
	26	9 57 18.94	1 15.50	+17 8 20.2	8 2.9	9.843040	1853	13 36.5
	27	9 56 3.44	1 17.93	17 16 23.1	8 8.4	9.841187	1733	13 31.3
	28	9 54 45.51	1 20.24	17 24 31.5	8 12.9	9.839454	1607	13 26.1
	29	9 53 25.27	1 22.43	17 32 44.4	8 16.4	9.837847	1480	13 20.8
	30	9 52 2.84	1 24.49	17 41 0.8	8 18.7	9.836367	1348	13 15.5
	31	9 50 38.35	1 26.40	+17 49 19.5	8 20.1	9.835019	1214	13 10.1
Febr.	1	9 49 11.95	1 28.16	17 57 39.6	8 20.2	9.833805	1076	13 4.8
	2	9 47 43.79	1 29.76	18 5 59.8	8 19.3	9.832729	937	12 59.3
	3	9 46 14.03	1 31.18	18 14 19.1	8 17.2	9.831792	795	12 53.9
	4	9 44 42.85	1 32.44	18 22 36.3	8 14.0	9.830997	650	12 48.5
	5	9 43 10.41	1 33.51	+18 30 50.3	8 9.7	9.830347	505	12 43.0
	6	9 41 36.90	1 34.40	18 39 0.0	8 4.2	9.829842	359	12 37.5
	7	9 40 2.50	1 35.10	18 47 4.2	7 57.8	9.829483	212	12 32.0
	8	9 38 27.40	1 35.61	18 55 2.0	7 50.2	9.829271	65	12 26.5
	9	9 36 51.79		19 2 52.2		9.829206		12 21.0

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Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Febr. 8	9 38 27.40	1 35.61	+18 55 2.0	7 50.2	9.829271	65	12 26.5
9	9 36 51.79	1 35.94	19 2 52.2	7 41.8	9.829206	83	12 21.0
10	9 35 15.85	1 36.07	19 10 34.0	7 32.3	9.829289	229	12 15.5
11	9 33 39.78	1 36.02	19 18 6.3	7 22.1	9.829518	376	12 9.9
12	9 32 3.76	1 35.77	19 25 28.4	7 11.0	9.829894	522	12 4.4
13	9 30 27.99	1 35.35	+19 32 39.4	6 59.2	9.830416	665	11 58.9
14	9 28 52.64	1 34.74	19 39 38.6	6 46.7	9.831081	808	11 53.4
15	9 27 17.90	1 33.96	19 46 25.3	6 33.5	9.831889	948	11 47.9
16	9 25 43.94	1 33.00	19 52 58.8	6 19.8	9.832837	1086	11 42.4
17	9 24 10.94	1 31.87	19 59 18.6	6 5.5	9.833923	1223	11 37.0
18	9 22 39.07	1 30.57	+20 5 24.1	5 50.7	9.835146	1357	11 31.5
19	9 21 8.50	1 29.12	20 11 14.8	5 35.5	9.836503	1487	11 26.1
20	9 19 39.38	1 27.51	20 16 50.3	5 19.9	9.837990	1616	11 20.7
21	9 18 11.87	1 25.75	20 22 10.2	5 4.0	9.839606	1740	11 15.3
22	9 16 46.12	1 23.86	20 27 14.2	4 47.8	9.841346	1862	11 10.0
23	9 15 22.26	1 21.82	+20 32 2.0	4 31.4	9.843208	1981	11 4.7
24	9 14 0.44	1 19.66	20 36 33.4	4 14.9	9.845189	2096	10 59.4
25	9 12 40.78	1 17.37	20 40 48.3	3 58.2	9.847285	2207	10 54.2
26	9 11 23.41	1 14.96	20 44 46.5	3 41.4	9.849492	2315	10 49.0
27	9 10 8.45	1 12.44	20 48 27.9	3 24.5	9.851807	2419	10 43.8
28	9 8 56.01	1 9.82	+20 51 52.4	3 7.6	9.854226	2519	10 38.7
29	9 7 46.19	1 7.09	20 55 0.0	2 50.7	9.856745	2615	10 33.7
März 1	9 6 39.10	1 4.27	20 57 50.7	2 33.7	9.859360	2707	10 28.6
2	9 5 34.83	1 1.36	21 0 24.4	2 16.9	9.862067	2794	10 23.7
3	9 4 33.47	0 58.39	21 2 41.3	2 0.1	9.864861	2878	10 18.7
4	9 3 35.08	0 55.34	+21 4 41.4	1 43.5	9.867739	2957	10 13.9
5	9 2 39.74	0 52.26	21 6 24.9	1 27.1	9.870696	3031	10 9.0
6	9 1 47.48	0 49.11	21 7 52.0	1 10.8	9.873727	3101	10 4.3
7	9 0 58.37	0 45.93	21 9 2.8	0 54.9	9.876828	3167	9 59.5
8	9 0 12.44	0 42.73	21 9 57.7	0 39.2	9.879995	3228	9 54.9
9	8 59 29.71	0 39.51	+21 10 36.9	0 23.8	9.883223	3287	9 50.2
10	8 58 50.20	0 36.27	21 11 0.7	0 8.5	9.886510	3339	9 45.7
11	8 58 13.93	0 33.03	21 11 9.2	0 6.3	9.889849	3389	9 41.2
12	8 57 40.90	0 29.80	21 11 2.9	0 20.8	9.893238	3435	9 36.7
13	8 57 11.10	0 26.56	21 10 42.1	0 35.1	9.896673	3478	9 32.3
14	8 56 44.54	0 23.35	+21 10 7.0	0 49.1	9.900151	3515	9 28.0
15	8 56 21.19	0 20.15	21 9 17.9	1 2.7	9.903666	3551	9 23.7
16	8 56 1.04	0 16.98	21 8 15.2	1 16.1	9.907217	3582	9 19.4
17	8 55 44.06	0 13.83	21 6 59.1	1 29.1	9.910799	3612	9 15.2
18	8 55 30.23		21 5 30.0		9.914411		9 11.1

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Tag	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	log Δ	Diff.	Zeit der oberen Kulmination h m
März 17	8 55 44.06	0 13.83	+21 6 59.1	1 29.1	9.910799	3612	9 15.2
18	8 55 30.23	0 10.72	21 5 30.0	1 41.8	9.914411	3637	9 11.1
19	8 55 19.51	0 7.63	21 3 48.2	1 54.2	9.918048	3660	9 7.0
20	8 55 11.88	0 4.59	21 1 54.0	2 6.4	9.921708	3681	9 3.0
21	8 55 7.29	0 1.58	20 59 47.6	2 18.3	9.925389	3699	8 59.0
22	8 55 5.71	0 1.40	+20 57 29.3	2 29.9	9.929088	3714	8 55.0
23	8 55 7.11	0 4.33	20 54 59.4	2 41.3	9.932802	3727	8 51.1
24	8 55 11.44	0 7.22	20 52 18.1	2 52.5	9.936529	3738	8 47.3
25	8 55 18.66	0 10.08	20 49 25.6	3 3.5	9.940267	3748	8 43.5
26	8 55 28.74	0 12.88	20 46 22.1	3 14.3	9.944015	3754	8 39.7
27	8 55 41.62	0 15.66	+20 43 7.8	3 25.0	9.947769	3760	8 36.0
28	8 55 57.28	0 18.40	20 39 42.8	3 35.6	9.951529	3763	8 32.4
29	8 56 15.68	0 21.08	20 36 7.2	3 45.8	9.955292	3764	8 28.8
30	8 56 36.76	0 23.72	20 32 21.4	3 56.0	9.959056	3763	8 25.2
31	8 57 0.48	0 26.33	20 28 25.4	4 6.0	9.962819	3761	8 21.7
April 1	8 57 26.81	0 28.89	+20 24 19.4	4 15.8	9.966580	3757	8 18.2
2	8 57 55.70	0 31.39	20 20 3.6	4 25.6	9.970337	3751	8 14.8
3	8 58 27.09	0 33.85	20 15 38.0	4 35.1	9.974088	3743	8 11.4
4	8 59 0.94	0 36.26	20 11 2.9	4 44.6	9.977831	3735	8 8.0
5	8 59 37.20	0 38.61	20 6 18.3	4 53.8	9.981566	3725	8 4.7
6	9 0 15.81	0 40.93	+20 1 24.5	5 3.0	9.985291	3714	8 1.4
7	9 0 56.74	0 43.17	19 56 21.5	5 11.9	9.989005	3700	7 58.2
8	9 1 39.91	0 45.38	19 51 9.6	5 20.7	9.992705	3687	7 55.0
9	9 2 25.29	0 47.53	19 45 48.9	5 29.5	9.996392	3672	7 51.8
10	9 3 12.82	0 49.62	19 40 19.4	5 38.0	0.000064	3657	7 48.7
11	9 4 2.44	0 51.66	+19 34 41.4	5 46.5	0.003721	3639	7 45.6
12	9 4 54.10	0 53.66	19 28 54.9	5 54.8	0.007360	3622	7 42.5
13	9 5 47.76	0 55.59	19 23 0.1	6 3.1	0.010982	3604	7 39.5
14	9 6 43.35	0 57.48	19 16 57.0	6 11.2	0.014586	3585	7 36.5
15	9 7 40.83	0 59.31	19 10 45.8	6 19.1	0.018171	3566	7 33.5
16	9 8 40.14	1 1.11	+19 4 26.7	6 27.0	0.021737	3546	7 30.6
17	9 9 41.25	1 2.85	18 57 59.7	6 34.8	0.025283	3525	7 27.7
18	9 10 44.10	1 4.54	18 51 24.9	6 42.5	0.028808	3505	7 24.8
19	9 11 48.64	1 6.21	18 44 42.4	6 50.2	0.032313	3484	7 21.9
20	9 12 54.85	1 7.82	18 37 52.2	6 57.8	0.035797	3462	7 19.1
21	9 14 2.67	1 9.39	+18 30 54.4	7 5.5	0.039259	3441	7 16.3
22	9 15 12.06	1 10.93	18 23 48.9	7 12.9	0.042700	3420	7 13.5
23	9 16 22.99	1 12.44	18 16 36.0	7 20.4	0.046120	3397	7 10.8
24	9 17 35.43	1 13.91	18 9 15.6	7 27.9	0.049517	3375	7 8.1
25	9 18 49.34		18 1 47.7		0.052892		7 5.4

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
April 24	9 17 35.43	1 13.91	+18 9 15.6	7 27.9	0.049517	3375	7 8.1
25	9 18 49.34	1 15.35	18 1 47.7	7 35.3	0.052892	3353	7 5.4
26	9 20 4.69	1 16.75	17 54 12.4	7 42.7	0.056245	3330	7 2.7
27	9 21 21.44	1 18.12	17 46 29.7	7 50.1	0.059575	3307	7 0.0
28	9 22 39.56	1 19.47	17 38 39.6	7 57.4	0.062882	3284	6 57.4
29	9 23 59.03	1 20.78	+17 30 42.2	8 4.7	0.066166	3260	6 54.8
30	9 25 19.81	1 22.05	17 22 37.5	8 12.0	0.069426	3236	6 52.2
Mai 1	9 26 41.86	1 23.29	17 14 25.5	8 19.2	0.072662	3212	6 49.7
2	9 28 5.15	1 24.51	17 6 6.3	8 26.4	0.075874	3188	6 47.1
3	9 29 29.66	1 25.69	16 57 39.9	8 33.5	0.079062	3163	6 44.6
4	9 30 55.35	1 26.84	+16 49 6.4	8 40.5	0.082225	3138	6 42.1
5	9 32 22.19	1 27.95	16 40 25.9	8 47.5	0.085363	3114	6 39.6
6	9 33 50.14	1 29.05	16 31 38.4	8 54.5	0.088477	3089	6 37.1
7	9 35 19.19	1 30.10	16 22 43.9	9 1.4	0.091566	3064	6 34.7
8	9 36 49.29	1 31.14	16 13 42.5	9 8.2	0.094630	3038	6 32.2
9	9 38 20.43	1 32.13	+16 4 34.3	9 14.9	0.097668	3014	6 29.8
10	9 39 52.56	1 33.10	15 55 19.4	9 21.6	0.100682	2988	6 27.4
11	9 41 25.66	1 34.04	15 45 57.8	9 28.3	0.103670	2963	6 25.0
12	9 42 59.70	1 34.96	15 36 29.5	9 34.9	0.106633	2939	6 22.7
13	9 44 34.66	1 35.85	15 26 54.6	9 41.3	0.109572	2913	6 20.3
14	9 46 10.51	1 36.71	+15 17 13.3	9 47.8	0.112485	2888	6 18.0
15	9 47 47.22	1 37.54	15 7 25.5	9 54.2	0.115373	2864	6 15.7
16	9 49 24.76	1 38.37	14 57 31.3	10 0.6	0.118237	2839	6 13.4
17	9 51 3.13	1 39.15	14 47 30.7	10 6.8	0.121076	2815	6 11.1
18	9 52 42.28	1 39.93	14 37 23.9	10 13.1	0.123891	2791	6 8.8
19	9 54 22.21	1 40.68	+14 27 10.8	10 19.3	0.126682	2767	6 6.5
20	9 56 2.89	1 41.42	14 16 51.5	10 25.5	0.129449	2744	6 4.2
21	9 57 44.31	1 42.15	14 6 26.0	10 31.6	0.132193	2720	6 2.0
22	9 59 26.46	1 42.86	13 55 54.4	10 37.8	0.134913	2696	5 59.8
23	10 1 9.32	1 43.55	13 45 16.6	10 43.8	0.137609	2674	5 57.6
24	10 2 52.87	1 44.24	+13 34 32.8	10 50.1	0.140283	2650	5 55.3
25	10 4 37.11	1 44.90	13 23 42.7	10 56.1	0.142933	2627	5 53.1
26	10 6 22.01	1 45.56	13 12 46.6	11 2.2	0.145560	2604	5 50.9
27	10 8 7.57	1 46.21	13 1 44.4	11 8.2	0.148164	2581	5 48.8
28	10 9 53.78	1 46.83	12 50 36.2	11 14.2	0.150745	2559	5 46.6
29	10 11 40.61	1 47.45	+12 39 22.0	11 20.1	0.153304	2535	5 44.4
30	10 13 28.06	1 48.05	12 28 1.9	11 26.0	0.155839	2512	5 42.3
31	10 15 16.11	1 48.65	12 16 35.9	11 31.8	0.158351	2490	5 40.2
Juni 1	10 17 4.76	1 49.22	12 5 4.1	11 37.5	0.160841	2467	5 38.0
2	10 18 53.98		11 53 26.6		0.163308		5 35.9

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Juni	1	10 17 4.76	1 49.22	+12 5 4.1	11 37.5	0.160841	2467	5 38.0
	2	10 18 53.98	1 49.78	11 53 26.6	11 43.2	0.163308	2444	5 35.9
	3	10 20 43.76	1 50.34	11 41 43.4	11 48.9	0.165752	2421	5 33.8
	4	10 22 34.10	1 50.87	11 29 54.5	11 54.4	0.168173	2399	5 31.7
	5	10 24 24.97	1 51.40	11 18 0.1	11 59.9	0.170572	2376	5 29.6
	6	10 26 16.37	1 51.91	+11 6 0.2	12 5.3	0.172948	2354	5 27.5
	7	10 28 8.28	1 52.41	10 53 54.9	12 10.7	0.175302	2332	5 25.5
	8	10 30 0.69	1 52.89	10 41 44.2	12 15.9	0.177634	2310	5 23.4
	9	10 31 53.58	1 53.37	10 29 28.3	12 21.1	0.179944	2288	5 21.3
	10	10 33 46.95	1 53.83	10 17 7.2	12 26.2	0.182232	2266	5 19.3
	11	10 35 40.78	1 54.28	+10 4 41.0	12 31.3	0.184498	2245	5 17.3
	12	10 37 35.06	1 54.73	9 52 9.7	12 36.3	0.186743	2223	5 15.2
	13	10 39 29.79	1 55.17	9 39 33.4	12 41.1	0.188966	2203	5 13.2
	14	10 41 24.96	1 55.59	9 26 52.3	12 46.0	0.191169	2181	5 11.2
	15	10 43 20.55	1 56.01	9 14 6.3	12 50.8	0.193350	2161	5 9.2
	16	10 45 16.56	1 56.42	+ 9 1 15.5	12 55.5	0.195511	2141	5 7.2
	17	10 47 12.98	1 56.84	8 48 20.0	13 0.2	0.197652	2120	5 5.2
	18	10 49 9.82	1 57.23	8 35 19.8	13 4.8	0.199772	2101	5 3.2
	19	10 51 7.05	1 57.64	8 22 15.0	13 9.5	0.201873	2081	5 1.2
	20	10 53 4.69	1 58.03	8 9 5.5	13 14.0	0.203954	2062	4 59.2
	21	10 55 2.72	1 58.44	+ 7 55 51.5	13 18.6	0.206016	2042	4 57.2
	22	10 57 1.16	1 58.83	7 42 32.9	13 23.1	0.208058	2024	4 55.3
	23	10 58 59.99	1 59.23	7 29 9.8	13 27.5	0.210082	2004	4 53.3
	24	11 0 59.22	1 59.62	7 15 42.3	13 31.8	0.212086	1985	4 51.4
	25	11 2 58.84	2 0.01	7 2 10.5	13 36.1	0.214071	1966	4 49.4
	26	11 4 58.85	2 0.40	+ 6 48 34.4	13 40.3	0.216037	1947	4 47.5
	27	11 6 59.25	2 0.78	6 34 54.1	13 44.5	0.217984	1928	4 45.5
	28	11 9 0.03	2 1.16	6 21 9.6	13 48.7	0.219912	1910	4 43.6
	29	11 11 1.19	2 1.53	6 7 20.9	13 52.6	0.221822	1891	4 41.7
	30	11 13 2.72	2 1.90	5 53 28.3	13 56.6	0.223713	1873	4 39.8
Juli	1	11 15 4.62	2 2.28	+ 5 39 31.7	14 0.4	0.225586	1854	4 37.9
	2	11 17 6.90	2 2.65	5 25 31.3	14 4.2	0.227440	1836	4 36.0
	3	11 19 9.55	2 3.01	5 11 27.1	14 7.9	0.229276	1817	4 34.1
	4	11 21 12.56	2 3.37	4 57 19.2	14 11.5	0.231093	1799	4 32.2
	5	11 23 15.93	2 3.73	4 43 7.7	14 15.0	0.232892	1780	4 30.3
	6	11 25 19.66	2 4.08	+ 4 28 52.7	14 18.4	0.234672	1763	4 28.4
	7	11 27 23.74	2 4.43	4 14 34.3	14 21.8	0.236435	1745	4 26.6
	8	11 29 28.17	2 4.78	4 0 12.5	14 25.0	0.238180	1728	4 24.7
	9	11 31 32.95	2 5.13	3 45 47.5	14 28.1	0.239908	1709	4 22.8
	10	11 33 38.08		3 31 19.4		0.241617		4 21.0

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Tag		Scheinbare Rektaszension h m s	m s	Scheinbare Deklination ° ′ ″	′ ″	log Δ		Zeit der oberen Kulmination h m
Juli	9	11 31 32.95	2 5.13	+3 45 47.5	14 28.1	0.239908	1709	4 22.8
	10	11 33 38.08	2 5.47	3 31 19.4	14 31.1	0.241617	1693	4 21.0
	11	11 35 43.55	2 5.81	3 16 48.3	14 34.1	0.243310	1675	4 19.1
	12	11 37 49.36	2 6.15	3 2 14.2	14 37.0	0.244985	1659	4 17.3
	13	11 39 55.51	2 6.49	2 47 37.2	14 39.8	0.246644	1642	4 15.5
	14	11 42 2.00	2 6.84	+2 32 57.4	14 42.5	0.248286	1625	4 13.6
	15	11 44 8.84	2 7.18	2 18 14.9	14 45.2	0.249911	1609	4 11.8
	16	11 46 16.02	2 7.52	2 3 29.7	14 47.7	0.251520	1593	4 10.0
	17	11 48 23.54	2 7.87	1 48 42.0	14 50.2	0.253113	1578	4 8.2
	18	11 50 31.41	2 8.22	1 33 51.8	14 52.7	0.254691	1562	4 6.4
	19	11 52 39.63	2 8.59	+1 18 59.1	14 55.2	0.256253	1546	4 4.6
	20	11 54 48.22	2 8.94	1 4 3.9	14 57.4	0.257799	1531	4 2.8
	21	11 56 57.16	2 9.31	0 49 6.5	14 59.7	0.259330	1515	4 1.0
	22	11 59 6.47	2 9.68	0 34 6.8	15 1.9	0.260845	1500	3 59.2
	23	12 1 16.15	2 10.05	0 19 4.9	15 4.0	0.262345	1485	3 57.4
	24	12 3 26.20	2 10.43	+0 4 0.9	15 5.9	0.263830	1470	3 55.6
	25	12 5 36.63	2 10.80	−0 11 5.0	15 7.8	0.265300	1455	3 53.9
	26	12 7 47.43	2 11.18	0 26 12.8	15 9.7	0.266755	1439	3 52.1
	27	12 9 58.61	2 11.57	0 41 22.5	15 11.4	0.268194	1425	3 50.4
	28	12 12 10.18	2 11.95	0 56 33.9	15 13.0	0.269619	1410	3 48.6
	29	12 14 22.13	2 12.34	−1 11 46.9	15 14.5	0.271029	1395	3 46.9
	30	12 16 34.47	2 12.73	1 27 1.4	15 16.0	0.272424	1380	3 45.1
	31	12 18 47.20	2 13.12	1 42 17.4	15 17.3	0.273804	1365	3 43.4
Aug.	1	12 21 0.32	2 13.52	1 57 34.7	15 18.5	0.275169	1351	3 41.7
	2	12 23 13.84	2 13.92	2 12 53.2	15 19.6	0.276520	1336	3 40.0
	3	12 25 27.76	2 14.31	−2 28 12.8	15 20.5	0.277856	1322	3 38.3
	4	12 27 42.07	2 14.71	2 43 33.3	15 21.4	0.279178	1307	3 36.6
	5	12 29 56.78	2 15.11	2 58 54.7	15 22.1	0.280485	1293	3 34.9
	6	12 32 11.89	2 15.51	3 14 16.8	15 22.8	0.281778	1279	3 33.2
	7	12 34 27.40	2 15.91	3 29 39.6	15 23.2	0.283057	1266	3 31.5
	8	12 36 43.31	2 16.32	−3 45 2.8	15 23.7	0.284323	1251	3 29.8
	9	12 38 59.63	2 16.73	4 0 26.5	15 24.0	0.285574	1238	3 28.2
	10	12 41 16.36	2 17.15	4 15 50.5	15 24.1	0.286812	1224	3 26.5
	11	12 43 33.51	2 17.56	4 31 14.6	15 24.2	0.288036	1211	3 24.8
	12	12 45 51.07	2 17.99	4 46 38.8	15 24.2	0.289247	1198	3 23.2
	13	12 48 9.06	2 18.41	−5 2 3.0	15 24.1	0.290445	1185	3 21.6
	14	12 50 27.47	2 18.85	5 17 27.1	15 23.8	0.291630	1172	3 19.9
	15	12 52 46.32	2 19.29	5 32 50.9	15 23.6	0.292802	1160	3 18.3
	16	12 55 5.61	2 19.73	5 48 14.5	15 23.1	0.293962	1147	3 16.7
	17	12 57 25.34		6 3 37.6		0.295109		3 15.1

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Aug. 16	12 55 5.61	2 19.73	− 5 48 14.5	15 23.1	0.293962	1147	3 16.7
17	12 57 25.34	2 20.18	6 3 37.6	15 22.7	0.295109	1136	3 15.1
18	12 59 45.52	2 20.65	6 19 0.3	15 22.0	0.296245	1123	3 13.5
19	13 2 6.17	2 21.11	6 34 22.3	15 21.4	0.297368	1110	3 11.9
20	13 4 27.28	2 21.60	6 49 43.7	15 20.5	0.298478	1099	3 10.3
21	13 6 48.88	2 22.07	− 7 5 4.2	15 19.6	0.299577	1087	3 8.7
22	13 9 10.95	2 22.56	7 20 23.8	15 18.5	0.300664	1074	3 7.1
23	13 11 33.51	2 23.06	7 35 42.3	15 17.3	0.301738	1063	3 5.6
24	13 13 56.57	2 23.55	7 50 59.6	15 16.0	0.302801	1050	3 4.0
25	13 16 20.12	2 24.06	8 6 15.6	15 14.6	0.303851	1039	3 2.5
26	13 18 44.18	2 24.56	− 8 21 30.2	15 13.0	0.304890	1027	3 0.9
27	13 21 8.74	2 25.08	8 36 43.2	15 11.3	0.305917	1015	2 59.4
28	13 23 33.82	2 25.59	8 51 54.5	15 9.5	0.306932	1003	2 57.9
29	13 25 59.41	2 26.12	9 7 4.0	15 7.5	0.307935	991	2 56.4
30	13 28 25.53	2 26.64	9 22 11.5	15 5.4	0.308926	980	2 54.9
31	13 30 52.17	2 27.18	− 9 37 16.9	15 3.1	0.309906	968	2 53.4
Sept. 1	13 33 19.35	2 27.70	9 52 20.0	15 0.7	0.310874	957	2 51.9
2	13 35 47.05	2 28.24	10 7 20.7	14 58.1	0.311831	945	2 50.4
3	13 38 15.29	2 28.78	10 22 18.8	14 55.4	0.312776	934	2 48.9
4	13 40 44.07	2 29.31	10 37 14.2	14 52.6	0.313710	923	2 47.5
5	13 43 13.38	2 29.87	−10 52 6.8	14 49.6	0.314633	911	2 46.0
6	13 45 43.25	2 30.41	11 6 56.4	14 46.5	0.315544	901	2 44.6
7	13 48 13.66	2 30.97	11 21 42.9	14 43.2	0.316445	890	2 43.1
8	13 50 44.63	2 31.52	11 36 26.1	14 39.7	0.317335	879	2 41.7
9	13 53 16.15	2 32.09	11 51 5.8	14 36.2	0.318214	869	2 40.3
10	13 55 48.24	2 32.66	−12 5 42.0	14 32.4	0.319083	859	2 38.9
11	13 58 20.90	2 33.24	12 20 14.4	14 28.7	0.319942	848	2 37.5
12	14 0 54.14	2 33.81	12 34 43.1	14 24.6	0.320790	838	2 36.1
13	14 3 27.95	2 34.41	12 49 7.7	14 20.6	0.321628	829	2 34.7
14	14 6 2.36	2 35.00	13 3 28.3	14 16.3	0.322457	819	2 33.4
15	14 8 37.36	2 35.61	−13 17 44.6	14 11.9	0.323276	809	2 32.0
16	14 11 12.97	2 36.21	13 31 56.5	14 7.4	0.324085	799	2 30.7
17	14 13 49.18	2 36.84	13 46 3.9	14 2.7	0.324884	790	2 29.3
18	14 16 26.02	2 37.46	14 0 6.6	13 57.8	0.325674	781	2 28.0
19	14 19 3.48	2 38.09	14 14 4.4	13 52.8	0.326455	771	2 26.7
20	14 21 41.57	2 38.72	−14 27 57.2	13 47.7	0.327226	761	2 25.4
21	14 24 20.29	2 39.36	14 41 44.9	13 42.4	0.327987	752	2 24.1
22	14 26 59.65	2 40.00	14 55 27.3	13 37.0	0.328739	743	2 22.8
23	14 29 39.65	2 40.65	15 9 4.3	13 31.3	0.329482	733	2 21.5
24	14 32 20.30		15 22 35.6		0.330215		2 20.3

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Tag	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	log Δ	Diff.	Zeit der oberen Kulmination h m
Sept. 23	14 29 39.65	2 40.65	−15 9 4.3	13 31.3	0.329482	733	2 21.5
24	14 32 20.30	2 41.30	15 22 35.6	13 25.5	0.330215	724	2 20.3
25	14 35 1.60	2 41.96	15 36 1.1	13 19.5	0.330939	715	2 19.0
26	14 37 43.56	2 42.61	15 49 20.6	13 13.3	0.331654	705	2 17.8
27	14 40 26.17	2 43.27	16 2 33.9	13 7.0	0.332359	696	2 16.6
28	14 43 9.44	2 43.93	−16 15 40.9	13 0.5	0.333055	687	2 15.3
29	14 45 53.37	2 44.60	16 28 41.4	12 53.8	0.333742	678	2 14.1
30	14 48 37.97	2 45.26	16 41 35.2	12 46.9	0.334420	668	2 12.9
Okt. 1	14 51 23.23	2 45.92	16 54 22.1	12 39.9	0.335088	660	2 11.7
2	14 54 9.15	2 46.59	17 7 2.0	12 32.6	0.335748	651	2 10.6
3	14 56 55.74	2 47.25	−17 19 34.6	12 25.3	0.336399	642	2 9.4
4	14 59 42.99	2 47.91	17 31 59.9	12 17.6	0.337041	633	2 8.3
5	15 2 30.90	2 48.58	17 44 17.5	12 9.9	0.337674	625	2 7.1
6	15 5 19.48	2 49.25	17 56 27.4	12 1.9	0.338299	617	2 6.0
7	15 8 8.73	2 49.91	18 8 29.3	11 53.8	0.338916	608	2 4.9
8	15 10 58.64	2 50.58	−18 20 23.1	11 45.5	0.339524	601	2 3.7
9	15 13 49.22	2 51.25	18 32 8.6	11 37.2	0.340125	592	2 2.6
10	15 16 40.47	2 51.92	18 43 45.8	11 28.6	0.340717	585	2 1.6
11	15 19 32.39	2 52.60	18 55 14.4	11 19.7	0.341302	577	2 0.5
12	15 22 24.99	2 53.28	19 6 34.1	11 10.8	0.341879	569	1 59.4
13	15 25 18.27	2 53.96	−19 17 44.9	11 1.7	0.342448	562	1 58.4
14	15 28 12.23	2 54.64	19 28 46.6	10 52.3	0.343010	554	1 57.3
15	15 31 6.87	2 55.33	19 39 38.9	10 42.8	0.343564	548	1 56.3
16	15 34 2.20	2 56.00	19 50 21.7	10 33.2	0.344112	539	1 55.3
17	15 36 58.20	2 56.69	20 0 54.9	10 23.4	0.344651	533	1 54.3
18	15 39 54.89	2 57.37	−20 11 18.3	10 13.4	0.345184	526	1 53.3
19	15 42 52.26	2 58.05	20 21 31.7	10 3.2	0.345710	518	1 52.3
20	15 45 50.31	2 58.73	20 31 34.9	9 52.8	0.346228	511	1 51.3
21	15 48 49.04	2 59.41	20 41 27.7	9 42.2	0.346739	503	1 50.4
22	15 51 48.45	3 0.09	20 51 9.9	9 31.5	0.347242	497	1 49.4
23	15 54 48.54	3 0.75	−21 0 41.4	9 20.6	0.347739	489	1 48.5
24	15 57 49.29	3 1.42	21 10 2.0	9 9.5	0.348228	483	1 47.5
25	16 0 50.71	3 2.08	21 19 11.5	8 58.3	0.348711	475	1 46.6
26	16 3 52.79	3 2.74	21 28 9.8	8 46.7	0.349186	469	1 45.7
27	16 6 55.53	3 3.39	21 36 56.5	8 35.2	0.349655	461	1 44.8
28	16 9 58.92	3 4.03	−21 45 31.7	8 23.3	0.350116	454	1 43.9
29	16 13 2.95	3 4.66	21 53 55.0	8 11.3	0.350570	448	1 43.1
30	16 16 7.61	3 5.29	22 2 6.3	7 59.2	0.351018	441	1 42.2
31	16 19 12.90	3 5.91	22 10 5.5	7 46.8	0.351459	434	1 41.3
Nov. 1	16 22 18.81		22 17 52.3		0.351893		1 40.5

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Okt. 31	16 19 12.90	3 5.91	−22 10 5.5	7 46.8	0.351459	434	1 41.3
Nov. 1	16 22 18.81	3 6.51	22 17 52.3	7 34.2	0.351893	427	1 40.5
2	16 25 25.32	3 7.11	22 25 26.5	7 21.6	0.352320	421	1 39.7
3	16 28 32.43	3 7.71	22 32 48.1	7 8.8	0.352741	415	1 38.8
4	16 31 40.14	3 8.28	22 39 56.9	6 55.9	0.353156	408	1 38.0
5	16 34 48.42	3 8.86	−22 46 52.8	6 42.7	0.353564	402	1 37.2
6	16 37 57.28	3 9.42	22 53 35.5	6 29.4	0.353966	397	1 36.4
7	16 41 6.70	3 9.99	23 0 4.9	6 16.0	0.354363	391	1 35.7
8	16 44 16.69	3 10.53	23 6 20.9	6 2.4	0.354754	385	1 34.9
9	16 47 27.22	3 11.08	23 12 23.3	5 48.6	0.355139	379	1 34.1
10	16 50 38.30	3 11.61	−23 18 11.9	5 34.8	0.355518	374	1 33.3
11	16 53 49.91	3 12.14	23 23 46.7	5 20.7	0.355892	368	1 32.6
12	16 57 2.05	3 12.66	23 29 7.4	5 6.5	0.356260	363	1 31.9
13	17 0 14.71	3 13.16	23 34 13.9	4 52.2	0.356623	358	1 31.1
14	17 3 27.87	3 13.66	23 39 6.1	4 37.8	0.356981	353	1 30.4
15	17 6 41.53	3 14.14	−23 43 43.9	4 23.3	0.357334	347	1 29.7
16	17 9 55.67	3 14.61	23 48 7.2	4 8.6	0.357681	342	1 29.0
17	17 13 10.28	3 15.08	23 52 15.8	3 53.7	0.358023	338	1 28.3
18	17 16 25.36	3 15.53	23 56 9.5	3 38.8	0.358361	332	1 27.6
19	17 19 40.89	3 15.97	23 59 48.3	3 23.7	0.358693	327	1 26.9
20	17 22 56.86	3 16.38	−24 3 12.0	3 8.5	0.359020	321	1 26.2
21	17 26 13.24	3 16.80	24 6 20.5	2 53.2	0.359341	317	1 25.6
22	17 29 30.04	3 17.20	24 9 13.7	2 37.8	0.359658	312	1 24.9
23	17 32 47.24	3 17.58	24 11 51.5	2 22.3	0.359970	306	1 24.3
24	17 36 4.82	3 17.94	24 14 13.8	2 6.6	0.360276	302	1 23.6
25	17 39 22.76	3 18.28	−24 16 20.4	1 51.0	0.360578	296	1 22.9
26	17 42 41.04	3 18.61	24 18 11.4	1 35.2	0.360874	292	1 22.3
27	17 45 59.65	3 18.92	24 19 46.6	1 19.4	0.361166	286	1 21.7
28	17 49 18.57	3 19.21	24 21 6.0	1 3.5	0.361452	282	1 21.1
29	17 52 37.78	3 19.49	24 22 9.5	0 47.4	0.361734	277	1 20.5
30	17 55 57.27	3 19.74	−24 22 56.9	0 31.4	0.362011	272	1 19.8
Dez. 1	17 59 17.01	3 19.98	24 23 28.3	0 15.2	0.362283	268	1 19.2
2	18 2 36.99	3 20.20	24 23 43.5	0 0.9	0.362551	264	1 18.6
3	18 5 57.19	3 20.40	24 23 42.6	0 17.2	0.362815	259	1 18.0
4	18 9 17.59	3 20.59	24 23 25.4	0 33.4	0.363074	256	1 17.4
5	18 12 38.18	3 20.76	−24 22 52.0	0 49.7	0.363330	251	1 16.8
6	18 15 58.94	3 20.91	24 22 2.3	1 6.0	0.363581	247	1 16.2
7	18 19 19.85	3 21.06	24 20 56.3	1 22.4	0.363828	244	1 15.6
8	18 22 40.91	3 21.18	24 19 33.9	1 38.8	0.364072	240	1 15.0
9	18 26 2.09		24 17 55.1		0.364312		1 14.4

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Dez. 8	18 22 40.91	3 21.18	−24 19 33.9	1 38.8	0.364072	240	1 15.0
9	18 26 2.09	3 21.29	24 17 55.1	1 55.2	0.364312	236	1 14.4
10	18 29 23.38	3 21.38	24 15 59.9	2 11.6	0.364548	233	1 13.8
11	18 32 44.76	3 21.46	24 13 48.3	2 28.1	0.364781	229	1 13.3
12	18 36 6.22	3 21.53	24 11 20.2	2 44.5	0.365010	226	1 12.7
13	18 39 27.75	3 21.57	−24 8 35.7	3 0.9	0.365236	222	1 12.1
14	18 42 49.32	3 21.61	24 5 34.8	3 17.4	0.365458	219	1 11.5
15	18 46 10.93	3 21.63	24 2 17.4	3 33.8	0.365677	216	1 10.9
16	18 49 32.56	3 21.63	23 58 43.6	3 50.2	0.365893	212	1 10.3
17	18 52 54.19	3 21.61	23 54 53.4	4 6.7	0.366105	209	1 9.8
18	18 56 15.80	3 21.58	−23 50 46.7	4 23.0	0.366314	206	1 9.2
19	18 59 37.38	3 21.54	23 46 23.7	4 39.4	0.366520	202	1 8.6
20	19 2 58.92	3 21.48	23 41 44.3	4 55.6	0.366722	199	1 8.0
21	19 6 20.40	3 21.40	23 36 48.7	5 11.9	0.366921	196	1 7.4
22	19 9 41.80	3 21.30	23 31 36.8	5 28.1	0.367117	192	1 6.8
23	19 13 3.10	3 21.19	−23 26 8.7	5 44.1	0.367309	190	1 6.2
24	19 16 24.29	3 21.07	23 20 24.6	6 0.3	0.367499	186	1 5.7
25	19 19 45.36	3 20.92	23 14 24.3	6 16.2	0.367685	182	1 5.1
26	19 23 6.28	3 20.75	23 8 8.1	6 32.1	0.367867	179	1 4.5
27	19 26 27.03	3 20.57	23 1 36.0	6 47.9	0.368046	177	1 3.9
28	19 29 47.60	3 20.38	−22 54 48.1	7 3.6	0.368223	173	1 3.3
29	19 33 7.98	3 20.16	22 47 44.5	7 19.3	0.368396	170	1 2.7
30	19 36 28.14	3 19.94	22 40 25.2	7 34.7	0.368566	168	1 2.1
31	19 39 48.08	3 19.70	22 32 50.5	7 50.1	0.368734	165	1 1.5
32	19 43 7.78		22 25 0.4		0.368899		1 0.8

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Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Jan. 1	23 33 35.59	1 4.24	−4 12 53.6	7 20.8	0.712796	2525	4 53.6
3	23 34 39.83	1 6.30	4 5 32.8	7 33.8	0.715321	2486	4 46.8
5	23 35 46.13	1 8.29	3 57 59.0	7 46.4	0.717807	2443	4 40.1
7	23 36 54.42	1 10.22	3 50 12.6	7 58.7	0.720250	2400	4 33.3
9	23 38 4.64	1 12.08	3 42 13.9	8 10.4	0.722650	2355	4 26.6
11	23 39 16.72	1 13.89	−3 34 3.5	8 21.8	0.725005	2308	4 20.0
13	23 40 30.61	1 15.62	3 25 41.7	8 32.7	0.727313	2261	4 13.3
15	23 41 46.23	1 17.30	3 17 9.0	8 43.4	0.729574	2213	4 6.7
17	23 43 3.53	1 18.92	3 8 25.6	8 53.5	0.731787	2164	4 0.2
19	23 44 22.45	1 20.50	2 59 32.1	9 3.5	0.733951	2114	3 53.6
21	23 45 42.95	1 22.01	−2 50 28.6	9 13.1	0.736065	2063	3 47.1
23	23 47 4.96	1 23.49	2 41 15.5	9 22.3	0.738128	2012	3 40.6
25	23 48 28.45	1 24.91	2 31 53.2	9 31.2	0.740140	1961	3 34.1
27	23 49 53.36	1 26.29	2 22 22.0	9 39.9	0.742101	1907	3 27.6
29	23 51 19.65	1 27.62	2 12 42.1	9 48.2	0.744008	1854	3 21.2
31	23 52 47.27	1 28.91	−2 2 53.9	9 56.3	0.745862	1799	3 14.8
Febr. 2	23 54 16.18	1 30.14	1 52 57.6	10 3.7	0.747661	1744	3 8.4
4	23 55 46.32	1 31.32	1 42 53.9	10 10.8	0.749405	1689	3 2.1
6	23 57 17.64	1 32.44	1 32 43.1	10 17.6	0.751094	1631	2 55.7
8	23 58 50.08	1 33.51	1 22 25.5	10 24.1	0.752725	1575	2 49.4
10	0 0 23.59	1 34.54	−1 12 1.4	10 30.3	0.754300	1517	2 43.1
12	0 1 58.13	1 35.51	1 1 31.1	10 35.9	0.755817	1460	2 36.8
14	0 3 33.64	1 36.43	0 50 55.2	10 41.3	0.757277	1403	2 30.5
16	0 5 10.07	1 37.31	0 40 13.9	10 46.3	0.758680	1344	2 24.2
18	0 6 47.38	1 38.16	0 29 27.6	10 51.1	0.760024	1287	2 18.0
20	0 8 25.54	1 38.96	−0 18 36.5	10 55.5	0.761311	1229	2 11.8
22	0 10 4.50	1 39.73	−0 7 41.0	10 59.8	0.762540	1171	2 5.5
24	0 11 44.23	1 40.46	+0 3 18.8	11 3.6	0.763711	1112	1 59.3
26	0 13 24.69	1 41.16	0 14 22.4	11 7.3	0.764823	1054	1 53.1
28	0 15 5.85	1 41.82	0 25 29.7	11 10.6	0.765877	995	1 46.9
März 1	0 16 47.67	1 42.43	+0 36 40.3	11 13.6	0.766872	935	1 40.8
3	0 18 30.10	1 43.01	0 47 53.9	11 16.2	0.767807	875	1 34.6
5	0 20 13.11	1 43.53	0 59 10.1	11 18.4	0.768682	815	1 28.4
7	0 21 56.64	1 44.01	1 10 28.5	11 20.4	0.769497	756	1 22.3
9	0 23 40.65	1 44.46	1 21 48.9	11 21.9	0.770253	696	1 16.2
11	0 25 25.11	1 44.86	+1 33 10.8	11 23.2	0.770949	636	1 10.0
13	0 27 9.97	1 45.23	1 44 34.0	11 24.3	0.771585	577	1 3.9
15	0 28 55.20	1 45.56	1 55 58.3	11 24.9	0.772162	517	0 57.8
17	0 30 40.76	1 45.85	2 7 23.2	11 25.4	0.772679	458	0 51.7
19	0 32 26.61		2 18 48.6		0.773137		0 45.6

Jupiter 1916

0h mittlere Zeit Greenwich

Tag	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	log Δ	Diff.	Zeit der oberen Kulmination (h m)
März 17	0 30 40.76	1 45.85	+2 7 23.2	11 25.4	0.772679	458	0 51.7
19	0 32 26.61	1 46.12	2 18 48.6	11 25.6	0.773137	399	0 45.6
21	0 34 12.73	1 46.35	2 30 14.2	11 25.6	0.773536	340	0 39.5
23	0 35 59.08	1 46.57	2 41 39.8	11 25.3	0.773876	281	0 33.4
25	0 37 45.65	1 46.74	2 53 5.1	11 24.7	0.774157	223	0 27.3
27	0 39 32.39	1 46.89	+3 4 29.8	11 24.0	0.774380	163	0 21.2
29	0 41 19.28	1 47.00	3 15 53.8	11 22.8	0.774543	103	0 15.1
31	0 43 6.28	1 47.07	3 27 16.6	11 21.4	0.774646	44	0 9.0
April 2	0 44 53.35	1 47.11	3 38 38.0	11 19.6	0.774690	16	{ 0 2.9 23 59.9
4	0 46 40.46	1 47.09	3 49 57.6	11 17.6	0.774674	75	23 53.8
6	0 48 27.55	1 47.05	+4 1 15.2	11 15.3	0.774599	133	23 47.7
8	0 50 14.60	1 46.97	4 12 30.5	11 12.6	0.774466	192	23 41.6
10	0 52 1.57	1 46.84	4 23 43.1	11 9.8	0.774274	251	23 35.5
12	0 53 48.41	1 46.71	4 34 52.9	11 6.7	0.774023	309	23 29.4
14	0 55 35.12	1 46.52	4 45 59.6	11 3.3	0.773714	367	23 23.3
16	0 57 21.64	1 46.31	+4 57 2.9	10 59.9	0.773347	424	23 17.2
18	0 59 7.95	1 46.08	5 8 2.8	10 56.0	0.772923	481	23 11.1
20	1 0 54.03	1 45.82	5 18 58.8	10 52.2	0.772442	539	23 5.0
22	1 2 39.85	1 45.51	5 29 51.0	10 47.9	0.771903	596	22 58.9
24	1 4 25.36	1 45.19	5 40 38.9	10 43.5	0.771307	653	22 52.8
26	1 6 10.55	1 44.83	+5 51 22.4	10 38.9	0.770654	710	22 46.6
28	1 7 55.38	1 44.42	6 2 1.3	10 33.8	0.769944	768	22 40.5
30	1 9 39.80	1 43.98	6 12 35.1	10 28.6	0.769176	824	22 34.4
Mai 2	1 11 23.78	1 43.49	6 23 3.7	10 23.0	0.768352	881	22 28.2
4	1 13 7.27	1 42.97	6 33 26.7	10 17.3	0.767471	938	22 22.1
6	1 14 50.24	1 42.40	+6 43 44.0	10 11.3	0.766533	993	22 15.9
8	1 16 32.64	1 41.80	6 53 55.3	10 5.0	0.765540	1049	22 9.8
10	1 18 14.44	1 41.16	7 4 0.3	9 58.6	0.764491	1104	22 3.6
12	1 19 55.60	1 40.48	7 13 58.9	9 51.9	0.763387	1159	21 57.4
14	1 21 36.08	1 39.78	7 23 50.8	9 45.0	0.762228	1212	21 51.2
16	1 23 15.86	1 39.04	+7 33 35.8	9 38.1	0.761016	1267	21 45.0
18	1 24 54.90	1 38.27	7 43 13.9	9 30.9	0.759749	1320	21 38.7
20	1 26 33.17	1 37.46	7 52 44.8	9 23.5	0.758429	1373	21 32.5
22	1 28 10.63	1 36.62	8 2 8.3	9 15.9	0.757056	1427	21 26.2
24	1 29 47.25	1 35.71	8 11 24.2	9 7.9	0.755629	1480	21 20.0
26	1 31 22.96	1 34.79	+8 20 32.1	8 59.8	0.754149	1532	21 13.7
28	1 32 57.75	1 33.79	8 29 31.9	8 51.5	0.752617	1585	21 7.4
30	1 34 31.54	1 32.76	8 38 23.4	8 42.8	0.751032	1637	21 1.1
Juni 1	1 36 4.30	1 31.67	8 47 6.2	8 34.0	0.749395	1688	20 54.8
3	1 37 35.97		8 55 40.2		0.747707		20 48.4

0h mittlere Zeit Greenwich

Tag		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
		h m s	m s	° ′ ″	′ ″			h m
Juni	1	1 36 4.30	1 31.67	+ 8 47 6.2	8 34.0	0.749395	1688	20 54.8
	3	1 37 35.97	1 30.54	8 55 40.2	8 24.9	0.747707	1739	20 48.4
	5	1 39 6.51	1 29.36	9 4 5.1	8 15.6	0.745968	1789	20 42.0
	7	1 40 35.87	1 28.15	9 12 20.7	8 6.2	0.744179	1837	20 35.7
	9	1 42 4.02	1 26.87	9 20 26.9	7 56.5	0.742342	1886	20 29.2
	11	1 43 30.89	1 25.56	+ 9 28 23.4	7 46.7	0.740456	1934	20 22.8
	13	1 44 56.45	1 24.21	9 36 10.1	7 36.7	0.738522	1980	20 16.3
	15	1 46 20.66	1 22.82	9 43 46.8	7 26.6	0.736542	2027	20 9.9
	17	1 47 43.48	1 21.38	9 51 13.4	7 16.3	0.734515	2073	20 3.4
	19	1 49 4.86	1 19.90	9 58 29.7	7 5.7	0.732442	2118	19 56.8
	21	1 50 24.76	1 18.35	+10 5 35.4	6 54.9	0.730324	2162	19 50.3
	23	1 51 43.11	1 16.75	10 12 30.3	6 43.9	0.728162	2206	19 43.7
	25	1 52 59.86	1 15.08	10 19 14.2	6 32.6	0.725956	2249	19 37.1
	27	1 54 14.94	1 13.35	10 25 46.8	6 21.1	0.723707	2291	19 30.5
	29	1 55 28.29	1 11.58	10 32 7.9	6 9.4	0.721416	2331	19 23.8
Juli	1	1 56 39.87	1 9.75	+10 38 17.3	5 57.5	0.719085	2371	19 17.1
	3	1 57 49.62	1 7.85	10 44 14.8	5 45.4	0.716714	2409	19 10.4
	5	1 58 57.47	1 5.90	10 50 0.2	5 33.1	0.714305	2445	19 3.6
	7	2 0 3.37	1 3.90	10 55 33.3	5 20.7	0.711860	2479	18 56.9
	9	2 1 7.27	1 1.85	11 0 54.0	5 8.0	0.709381	2513	18 50.1
	11	2 2 9.12	0 59.74	+11 6 2.0	4 55.4	0.706868	2545	18 43.2
	13	2 3 8.86	0 57.61	11 10 57.4	4 42.5	0.704323	2576	18 36.3
	15	2 4 6.47	0 55.39	11 15 39.9	4 29.3	0.701747	2605	18 29.4
	17	2 5 1.86	0 53.14	11 20 9.2	4 16.1	0.699142	2632	18 22.5
	19	2 5 55.00	0 50.81	11 24 25.3	4 2.6	0.696510	2658	18 15.5
	21	2 6 45.81	0 48.43	+11 28 27.9	3 48.9	0.693852	2682	18 8.4
	23	2 7 34.24	0 45.99	11 32 16.8	3 34.9	0.691170	2705	18 1.3
	25	2 8 20.23	0 43.47	11 35 51.7	3 20.7	0.688465	2724	17 54.2
	27	2 9 3.70	0 40.90	11 39 12.4	3 6.5	0.685741	2741	17 47.0
	29	2 9 44.60	0 38.28	11 42 18.9	2 51.9	0.683000	2757	17 39.9
	31	2 10 22.88	0 35.60	+11 45 10.8	2 37.4	0.680243	2768	17 32.6
Aug.	2	2 10 58.48	0 32.86	11 47 48.2	2 22.5	0.677475	2777	17 25.3
	4	2 11 31.34	0 30.10	11 50 10.7	2 7.6	0.674698	2784	17 18.0
	6	2 12 1.44	0 27.31	11 52 18.3	1 52.7	0.671914	2787	17 10.6
	8	2 12 28.75	0 24.47	11 54 11.0	1 37.7	0.669127	2787	17 3.2
	10	2 12 53.22	0 21.59	+11 55 48.7	1 22.5	0.666340	2785	16 55.7
	12	2 13 14.81	0 18.66	11 57 11.2	1 7.3	0.663555	2779	16 48.2
	14	2 13 33.47	0 15.71	11 58 18.5	0 51.9	0.660776	2771	16 40.6
	16	2 13 49.18	0 12.72	11 59 10.4	0 36.4	0.658005	2759	16 33.0
	18	2 14 1.90		11 59 46.8		0.655246		16 25.3

0ʰ mittlere Zeit Greenwich

Tag	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	log Δ	Diff.	Zeit der oberen Kulmination (h m)
Aug. 16	2 13 49.18	0 12.72	+11 59 10.4	0 36.4	0.658005	2759	16 33.0
18	2 14 1.90	0 9.70	11 59 46.8	0 20.8	0.655246	2744	16 25.3
20	2 14 11.60	0 6.64	12 0 7.6	0 5.2	0.652502	2725	16 17.6
22	2 14 18.24	0 3.55	12 0 12.8	0 10.7	0.649777	2701	16 9.8
24	2 14 21.79	0 0.46	12 0 2.1	0 26.4	0.647076	2674	16 2.0
26	2 14 22.25	0 2.66	+11 59 35.7	0 42.2	0.644402	2642	15 54.1
28	2 14 19.59	0 5.78	11 58 53.5	0 57.9	0.641760	2605	15 46.2
30	2 14 13.81	0 8.89	11 57 55.6	1 13.5	0.639155	2565	15 38.2
Sept. 1	2 14 4.92	0 11.98	11 56 42.1	1 28.9	0.636590	2519	15 30.2
3	2 13 52.94	0 15.04	11 55 13.2	1 44.2	0.634071	2470	15 22.1
5	2 13 37.90	0 18.07	+11 53 29.0	1 59.4	0.631601	2415	15 14.0
7	2 13 19.83	0 21.07	11 51 29.6	2 14.3	0.629186	2357	15 5.8
9	2 12 58.76	0 24.02	11 49 15.3	2 29.1	0.626829	2293	14 57.6
11	2 12 34.74	0 26.93	11 46 46.2	2 43.5	0.624536	2226	14 49.3
13	2 12 7.81	0 29.78	11 44 2.7	2 57.7	0.622310	2153	14 41.0
15	2 11 38.03	0 32.59	+11 41 5.0	3 11.7	0.620157	2077	14 32.6
17	2 11 5.44	0 35.32	11 37 53.3	3 25.3	0.618080	1996	14 24.2
19	2 10 30.12	0 37.99	11 34 28.0	3 38.5	0.616084	1910	14 15.7
21	2 9 52.13	0 40.55	11 30 49.5	3 51.3	0.614174	1818	14 7.2
23	2 9 11.58	0 43.03	11 26 58.2	4 3.5	0.612356	1723	13 58.7
25	2 8 28.55	0 45.38	+11 22 54.7	4 15.1	0.610633	1622	13 50.1
27	2 7 43.17	0 47.62	11 18 39.6	4 26.1	0.609011	1518	13 41.5
29	2 6 55.55	0 49.71	11 14 13.5	4 36.5	0.607493	1409	13 32.8
Okt. 1	2 6 5.84	0 51.65	11 9 37.0	4 45.9	0.606084	1296	13 24.1
3	2 5 14.19	0 53.45	11 4 51.1	4 54.6	0.604788	1180	13 15.4
5	2 4 20.74	0 55.08	+10 59 56.5	5 2.7	0.603608	1061	13 6.6
7	2 3 25.66	0 56.55	10 54 53.8	5 9.7	0.602547	938	12 57.8
9	2 2 29.11	0 57.87	10 49 44.1	5 16.0	0.601609	815	12 49.0
11	2 1 31.24	0 59.02	10 44 28.1	5 21.5	0.600794	687	12 40.2
13	2 0 32.22	1 0.01	10 39 6.6	5 26.1	0.600107	559	12 31.4
15	1 59 32.21	1 0.82	+10 33 40.5	5 29.6	0.599548	427	12 22.5
17	1 58 31.39	1 1.44	10 28 10.9	5 32.3	0.599121	295	12 13.6
19	1 57 29.95	1 1.89	10 22 38.6	5 33.8	0.598826	160	12 4.7
21	1 56 28.06	1 2.14	10 17 4.8	5 34.4	0.598666	25	11 55.9
23	1 55 25.92	1 2.18	10 11 30.4	5 33.8	0.598641	110	11 47.0
25	1 54 23.74	1 2.03	+10 5 56.6	5 32.1	0.598751	247	11 38.1
27	1 53 21.71	1 1.69	10 0 24.5	5 29.3	0.598998	382	11 29.2
29	1 52 20.02	1 1.13	9 54 55.2	5 25.4	0.599380	517	11 20.3
31	1 51 18.89	1 0.38	9 49 29.8	5 20.4	0.599897	650	11 11.4
Nov. 2	1 50 18.51		9 44 9.4		0.600547		11 2.5

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Okt. 31	1 51 18.89	1 0.38	+9 49 29.8	5 20.4	0.599897	650	11 11.4
Nov. 2	1 50 18.51	0 59.45	9 44 9.4	5 14.2	0.600547	782	11 2.5
4	1 49 19.06	0 58.34	9 38 55.2	5 7.3	0.601329	911	10 53.7
6	1 48 20.72	0 57.05	9 33 47.9	4 59.4	0.602240	1037	10 44.9
8	1 47 23.67	0 55.61	9 28 48.5	4 50.4	0.603277	1161	10 36.1
10	1 46 28.06	0 54.02	+9 23 58.1	4 40.6	0.604438	1282	10 27.3
12	1 45 34.04	0 52.27	9 19 17.5	4 30.0	0.605720	1400	10 18.6
14	1 44 41.77	0 50.38	9 14 47.5	4 18.5	0.607120	1515	10 9.8
16	1 43 51.39	0 48.34	9 10 29.0	4 6.2	0.608635	1626	10 1.1
18	1 43 3.05	0 46.17	9 6 22.8	3 53.1	0.610261	1734	9 52.5
20	1 42 16.88	0 43.86	+9 2 29.7	3 39.1	0.611995	1837	9 43.9
22	1 41 33.02	0 41.44	8 58 50.6	3 24.5	0.613832	1937	9 35.3
24	1 40 51.58	0 38.90	8 55 26.1	3 9.3	0.615769	2032	9 26.7
26	1 40 12.68	0 36.24	8 52 16.8	2 53.4	0.617801	2122	9 18.2
28	1 39 36.44	0 33.48	8 49 23.4	2 36.9	0.619923	2207	9 9.8
30	1 39 2.96	0 30.66	+8 46 46.5	2 20.1	0.622130	2286	9 1.4
Dez. 2	1 38 32.30	0 27.78	8 44 26.4	2 2.9	0.624416	2361	8 53.0
4	1 38 4.52	0 24.82	8 42 23.5	1 45.5	0.626777	2431	8 44.7
6	1 37 39.70	0 21.84	8 40 38.0	1 27.8	0.629208	2495	8 36.4
8	1 37 17.86	0 18.81	8 39 10.2	1 9.9	0.631703	2555	8 28.2
10	1 36 59.05	0 15.75	+8 38 0.3	0 51.9	0.634258	2610	8 20.0
12	1 36 43.30	0 12.66	8 37 8.4	0 33.7	0.636868	2661	8 11.9
14	1 36 30.64	0 9.53	8 36 34.7	0 15.3	0.639529	2707	8 3.9
16	1 36 21.11	0 6.41	8 36 19.4	0 3.0	0.642236	2748	7 55.9
18	1 36 14.70	0 3.26	8 36 22.4	0 21.5	0.644984	2785	7 47.9
20	1 36 11.44	0 0.11	+8 36 43.9	0 39.8	0.647769	2818	7 40.0
22	1 36 11.33	0 3.06	8 37 23.7	0 58.2	0.650587	2845	7 32.1
24	1 36 14.39	0 6.22	8 38 21.9	1 16.5	0.653432	2869	7 24.3
26	1 36 20.61	0 9.36	8 39 38.4	1 34.7	0.656301	2887	7 16.6
28	1 36 29.97	0 12.49	8 41 13.1	1 52.6	0.659188	2902	7 8.9
30	1 36 42.46	0 15.57	+8 43 5.7	2 10.2	0.662090	2912	7 1.2
32	1 36 58.03		8 45 15.9		0.665002		6 53.6

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	s	° ′ ″	′ ″			h m
Jan. 1	6 57 33.82	42.58	+22 18 3.2	1 11.1	0.905360	71	12 16.1
3	6 56 51.24	42.65	22 19 14.3	1 10.7	0.905289	1	12 7.5
5	6 56 8.59	42.62	22 20 25.0	1 10.3	0.905288	69	11 59.0
7	6 55 25.97	42.48	22 21 35.3	1 9.6	0.905357	138	11 50.4
9	6 54 43.49	42.25	22 22 44.9	1 8.8	0.905495	206	11 41.8
11	6 54 1.24	41.91	+22 23 53.7	1 7.9	0.905701	274	11 33.3
13	6 53 19.33	41.47	22 25 1.6	1 7.0	0.905975	342	11 24.7
15	6 52 37.86	40.94	22 26 8.6	1 5.8	0.906317	408	11 16.2
17	6 51 56.92	40.32	22 27 14.4	1 4.5	0.906725	474	11 7.6
19	6 51 16.60	39.61	22 28 18.9	1 3.3	0.907199	538	10 59.1
21	6 50 36.99	38.82	+22 29 22.2	1 1.9	0.907737	602	10 50.6
23	6 49 58.17	37.94	22 30 24.1	1 0.4	0.908339	664	10 42.1
25	6 49 20.23	36.98	22 31 24.5	0 59.0	0.909003	725	10 33.6
27	6 48 43.25	35.92	22 32 23.5	0 57.4	0.909728	785	10 25.1
29	6 48 7.33	34.80	22 33 20.9	0 55.8	0.910513	844	10 16.7
31	6 47 32.53	33.58	+22 34 16.7	0 54.1	0.911357	900	10 8.2
Febr. 2	6 46 58.95	32.30	22 35 10.8	0 52.3	0.912257	955	9 59.8
4	6 46 26.65	30.93	22 36 3.1	0 50.5	0.913212	1009	9 51.4
6	6 45 55.72	29.50	22 36 53.6	0 48.7	0.914221	1059	9 43.0
8	6 45 26.22	28.00	22 37 42.3	0 46.8	0.915280	1108	9 34.7
10	6 44 58.22	26.44	+22 38 29.1	0 44.8	0.916388	1154	9 26.4
12	6 44 31.78	24.85	22 39 13.9	0 43.0	0.917542	1199	9 18.1
14	6 44 6.93	23.19	22 39 56.9	0 41.1	0.918741	1241	9 9.8
16	6 43 43.74	21.51	22 40 38.0	0 39.1	0.919982	1281	9 1.5
18	6 43 22.23	19.78	22 41 17.1	0 37.2	0.921263	1319	8 53.3
20	6 43 2.45	18.02	+22 41 54.3	0 35.3	0.922582	1354	8 45.2
22	6 42 44.43	16.22	22 42 29.6	0 33.3	0.923936	1387	8 37.0
24	6 42 28.21	14.39	22 43 2.9	0 31.4	0.925323	1419	8 28.9
26	6 42 13.82	12.54	22 43 34.3	0 29.4	0.926742	1448	8 20.8
28	6 42 1.28	10.66	22 44 3.7	0 27.5	0.928190	1475	8 12.7
März 1	6 41 50.62	8.75	+22 44 31.2	0 25.6	0.929665	1499	8 4.7
3	6 41 41.87	6.82	22 44 56.8	0 23.5	0.931164	1522	7 56.7
5	6 41 35.05	4.87	22 45 20.3	0 21.5	0.932686	1541	7 48.7
7	6 41 30.18	2.93	22 45 41.8	0 19.5	0.934227	1559	7 40.7
9	6 41 27.25	0.98	22 46 1.3	0 17.5	0.935786	1574	7 32.8
11	6 41 26.27	0.97	+22 46 18.8	0 15.5	0.937360	1586	7 25.0
13	6 41 27.24	2.92	22 46 34.3	0 13.5	0.938946	1597	7 17.1
15	6 41 30.16	4.85	22 46 47.8	0 11.5	0.940543	1605	7 9.3
17	6 41 35.01	6.77	22 46 59.3	0 9.4	0.942148	1612	7 1.5
19	6 41 41.78		22 47 8.7		0.943760		6 53.8

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	s	° ′ ″	′ ″			h m
März 17	6 41 35.01	6.77	+22 46 59.3	0 9.4	0.942148	1612	7 1.5
19	6 41 41.78	8.68	22 47 8.7	0 7.5	0.943760	1617	6 53.8
21	6 41 50.46	10.59	22 47 16.2	0 5.4	0.945377	1620	6 46.1
23	6 42 1.05	12.48	22 47 21.6	0 3.4	0.946997	1620	6 38.4
25	6 42 13.53	14.35	22 47 25.0	0 1.3	0.948617	1620	6 30.7
27	6 42 27.88	16.22	+22 47 26.3	0 0.8	0.950237	1617	6 23.1
29	6 42 44.10	18.06	22 47 25.5	0 2.9	0.951854	1613	6 15.5
31	6 43 2.16	19.89	22 47 22.6	0 5.1	0.953467	1606	6 8.0
April 2	6 43 22.05	21.69	22 47 17.5	0 7.2	0.955073	1598	6 0.4
4	6 43 43.74	23.48	22 47 10.3	0 9.4	0.956671	1588	5 52.9
6	6 44 7.22	25.21	+22 47 0.9	0 11.6	0.958259	1577	5 45.5
8	6 44 32.43	26.94	22 46 49.3	0 13.9	0.959836	1563	5 38.0
10	6 44 59.37	28.61	22 46 35.4	0 16.1	0.961399	1548	5 30.6
12	6 45 27.98	30.27	22 46 19.3	0 18.4	0.962947	1533	5 23.2
14	6 45 58.25	31.87	22 46 0.9	0 20.7	0.964480	1515	5 15.9
16	6 46 30.12	33.46	+22 45 40.2	0 23.0	0.965995	1497	5 8.5
18	6 47 3.58	34.99	22 45 17.2	0 25.3	0.967492	1477	5 1.2
20	6 47 38.57	36.52	22 44 51.9	0 27.6	0.968969	1457	4 53.9
22	6 48 15.09	37.99	22 44 24.3	0 30.0	0.970426	1434	4 46.7
24	6 48 53.08	39.45	22 43 54.3	0 32.4	0.971860	1412	4 39.5
26	6 49 32.53	40.86	+22 43 21.9	0 34.9	0.973272	1387	4 32.3
28	6 50 13.39	42.25	22 42 47.0	0 37.4	0.974659	1362	4 25.1
30	6 50 55.64	43.60	22 42 9.6	0 39.9	0.976021	1336	4 17.9
Mai 2	6 51 39.24	44.91	22 41 29.7	0 42.4	0.977357	1308	4 10.8
4	6 52 24.15	46.18	22 40 47.3	0 45.0	0.978665	1280	4 3.7
6	6 53 10.33	47.41	+22 40 2.3	0 47.5	0.979945	1250	3 56.6
8	6 53 57.74	48.59	22 39 14.8	0 50.1	0.981195	1220	3 49.5
10	6 54 46.33	49.74	22 38 24.7	0 52.7	0.982415	1189	3 42.4
12	6 55 36.07	50.84	22 37 32.0	0 55.2	0.983604	1158	3 35.4
14	6 56 26.91	51.90	22 36 36.8	0 57.9	0.984762	1125	3 28.4
16	6 57 18.81	52.93	+22 35 38.9	1 0.4	0.985887	1093	3 21.4
18	6 58 11.74	53.92	22 34 38.5	1 3.1	0.986980	1059	3 14.4
20	6 59 5.66	54.86	22 33 35.4	1 5.6	0.988039	1026	3 7.4
22	7 0 0.52	55.80	22 32 29.8	1 8.3	0.989065	992	3 0.5
24	7 0 56.32	56.68	22 31 21.5	1 11.0	0.990057	956	2 53.5
26	7 1 53.00	57.54	+22 30 10.5	1 13.6	0.991013	921	2 46.6
28	7 2 50.54	58.34	22 28 56.9	1 16.3	0.991934	884	2 39.7
30	7 3 48.88	59.11	22 27 40.6	1 19.0	0.992818	848	2 32.8
Juni 1	7 4 47.99	59.85	22 26 21.6	1 21.6	0.993666	810	2 25.9
3	7 5 47.84		22 25 0.0		0.994476		2 19.0

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Tag		Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	log Δ	Diff.	Zeit der oberen Kulmination h m
Juni	1	7 4 47.99	0 59.85	+22 26 21.6	1 21.6	0.993666	810	2 25.9
	3	7 5 47.84	1 0.53	22 25 0.0	1 24.2	0.994476	772	2 19.0
	5	7 6 48.37	1 1.18	22 23 35.8	1 26.8	0.995248	735	2 12.2
	7	7 7 49.55	1 1.79	22 22 9.0	1 29.3	0.995983	696	2 5.3
	9	7 8 51.34	1 2.36	22 20 39.7	1 31.9	0.996679	657	1 58.5
	11	7 9 53.70	1 2.88	+22 19 7.8	1 34.4	0.997336	619	1 51.7
	13	7 10 56.58	1 3.37	22 17 33.4	1 36.8	0.997955	579	1 44.8
	15	7 11 59.95	1 3.84	22 15 56.6	1 39.3	0.998534	541	1 38.0
	17	7 13 3.79	1 4.26	22 14 17.3	1 41.8	0.999075	501	1 31.2
	19	7 14 8.05	1 4.65	22 12 35.5	1 44.2	0.999576	461	1 24.4
	21	7 15 12.70	1 5.01	+22 10 51.3	1 46.5	1.000037	422	1 17.6
	23	7 16 17.71	1 5.34	22 9 4.8	1 48.9	1.000459	381	1 10.9
	25	7 17 23.05	1 5.63	22 7 15.9	1 51.2	1.000840	340	1 4.1
	27	7 18 28.68	1 5.87	22 5 24.7	1 53.4	1.001180	300	0 57.3
	29	7 19 34.55	1 6.08	22 3 31.3	1 55.6	1.001480	259	0 50.5
Juli	1	7 20 40.63	1 6.25	+22 1 35.7	1 57.7	1.001739	218	0 43.7
	3	7 21 46.88	1 6.39	21 59 38.0	1 59.8	1.001957	176	0 37.0
	5	7 22 53.27	1 6.47	21 57 38.2	2 1.7	1.002133	136	0 30.2
	7	7 23 59.74	1 6.53	21 55 36.5	2 3.6	1.002269	94	0 23.5
	9	7 25 6.27	1 6.55	21 53 32.9	2 5.5	1.002363	53	0 16.7
	11	7 26 12.82	1 6.52	+21 51 27.4	2 7.1	1.002416	12	0 9.9
	13	7 27 19.34	1 6.47	21 49 20.3	2 8.9	1.002428	29	{ 0 3.2 / 23 59.8
	15	7 28 25.81	1 6.40	21 47 11.4	2 10.4	1.002399	70	23 53.0
	17	7 29 32.21	1 6.29	21 45 1.0	2 12.0	1.002329	110	23 46.3
	19	7 30 38.50	1 6.14	21 42 49.0	2 13.3	1.002219	151	23 39.5
	21	7 31 44.64	1 5.96	+21 40 35.7	2 14.8	1.002068	193	23 32.7
	23	7 32 50.60	1 5.75	21 38 20.9	2 16.0	1.001875	233	23 26.0
	25	7 33 56.35	1 5.50	21 36 4.9	2 17.2	1.001642	275	23 19.2
	27	7 35 1.85	1 5.20	21 33 47.7	2 18.2	1.001367	316	23 12.4
	29	7 36 7.05	1 4.87	21 31 29.5	2 19.1	1.001051	356	23 5.6
	31	7 37 11.92	1 4.51	+21 29 10.4	2 19.9	1.000695	397	22 58.8
Aug.	2	7 38 16.43	1 4.10	21 26 50.5	2 20.6	1.000298	438	22 52.0
	4	7 39 20.53	1 3.65	21 24 29.9	2 21.1	0.999860	478	22 45.2
	6	7 40 24.18	1 3.17	21 22 8.8	2 21.5	0.999382	518	22 38.4
	8	7 41 27.35	1 2.65	21 19 47.3	2 21.8	0.998864	557	22 31.6
	10	7 42 30.00	1 2.11	+21 17 25.5	2 22.0	0.998307	596	22 24.8
	12	7 43 32.11	1 1.53	21 15 3.5	2 22.1	0.997711	635	22 17.9
	14	7 44 33.64	1 0.93	21 12 41.4	2 22.0	0.997076	674	22 11.1
	16	7 45 34.57	1 0.28	21 10 19.4	2 21.8	0.996402	712	22 4.2
	18	7 46 34.85		21 7 57.6		0.995690		21 57.3

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	m s	° ′ ″	′ ″			h m
Aug. 16	7 45 34.57	1 0.28	+21 10 19.4	2 21.8	0.996402	712	22 4.2
18	7 46 34.85	0 59.61	21 7 57.6	2 21.5	0.995690	750	21 57.3
20	7 47 34.46	0 58.89	21 5 36.1	2 21.1	0.994940	789	21 50.5
22	7 48 33.35	0 58.14	21 3 15.0	2 20.4	0.994151	826	21 43.6
24	7 49 31.49	0 57.34	21 0 54.6	2 19.6	0.993325	863	21 36.7
26	7 50 28.83	0 56.52	+20 58 35.0	2 18.6	0.992462	900	21 29.7
28	7 51 25.35	0 55.64	20 56 16.4	2 17.6	0.991562	937	21 22.8
30	7 52 20.99	0 54.74	20 53 58.8	2 16.2	0.990625	972	21 15.9
Sept. 1	7 53 15.73	0 53.78	20 51 42.6	2 14.9	0.989653	1007	21 8.9
3	7 54 9.51	0 52.81	20 49 27.7	2 13.2	0.988646	1041	21 1.9
5	7 55 2.32	0 51.79	+20 47 14.5	2 11.4	0.987605	1075	20 54.9
7	7 55 54.11	0 50.73	20 45 3.1	2 9.5	0.986530	1108	20 47.9
9	7 56 44.84	0 49.66	20 42 53.6	2 7.4	0.985422	1140	20 40.9
11	7 57 34.50	0 48.55	20 40 46.2	2 5.2	0.984282	1172	20 33.9
13	7 58 23.05	0 47.40	20 38 41.0	2 2.9	0.983110	1202	20 26.8
15	7 59 10.45	0 46.23	+20 36 38.1	2 0.3	0.981908	1233	20 19.7
17	7 59 56.68	0 45.01	20 34 37.8	1 57.6	0.980675	1263	20 12.6
19	8 0 41.69	0 43.75	20 32 40.2	1 54.8	0.979412	1291	20 5.5
21	8 1 25.44	0 42.46	20 30 45.4	1 51.6	0.978121	1319	19 58.3
23	8 2 7.90	0 41.13	20 28 53.8	1 48.3	0.976802	1346	19 51.2
25	8 2 49.03	0 39.77	+20 27 5.5	1 45.0	0.975456	1372	19 44.0
27	8 3 28.80	0 38.35	20 25 20.5	1 41.3	0.974084	1397	19 36.8
29	8 4 7.15	0 36.92	20 23 39.2	1 37.6	0.972687	1420	19 29.5
Okt. 1	8 4 44.07	0 35.45	20 22 1.6	1 33.6	0.971267	1442	19 22.2
3	8 5 19.52	0 33.95	20 20 28.0	1 29.5	0.969825	1464	19 15.0
5	8 5 53.47	0 32.42	+20 18 58.5	1 25.3	0.968361	1483	19 7.7
7	8 6 25.89	0 30.87	20 17 33.2	1 21.0	0.966878	1501	19 0.3
9	8 6 56.76	0 29.29	20 16 12.2	1 16.5	0.965377	1518	18 53.0
11	8 7 26.05	0 27.68	20 14 55.7	1 11.9	0.963859	1534	18 45.6
13	8 7 53.73	0 26.05	20 13 43.8	1 7.1	0.962325	1549	18 38.2
15	8 8 19.78	0 24.38	+20 12 36.7	1 2.2	0.960776	1562	18 30.7
17	8 8 44.16	0 22.69	20 11 34.5	0 57.1	0.959214	1573	18 23.3
19	8 9 6.85	0 20.97	20 10 37.4	0 52.0	0.957641	1583	18 15.8
21	8 9 27.82	0 19.22	20 9 45.4	0 46.7	0.956058	1592	18 8.2
23	8 9 47.04	0 17.44	20 8 58.7	0 41.2	0.954466	1598	18 0.6
25	8 10 4.48	0 15.64	+20 8 17.5	0 35.7	0.952868	1603	17 53.1
27	8 10 20.12	0 13.84	20 7 41.8	0 30.1	0.951265	1605	17 45.5
29	8 10 33.96	0 12.00	20 7 11.7	0 24.2	0.949660	1606	17 37.8
31	8 10 45.96	0 10.16	20 6 47.5	0 18.7	0.948054	1605	17 30.2
Nov. 2	8 10 56.12		20 6 28.8		0.946449		17 22.4

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	s	° ′ ″	′ ″			h m
Okt. 31	8 10 45.96	10.16	+20 6 47.5	0 18.7	0.948054	1605	17 30.2
Nov. 2	8 10 56.12	8.30	20 6 28.8	0 12.7	0.946449	1602	17 22.4
4	8 11 4.42	6.46	20 6 16.1	0 7.0	0.944847	1596	17 14.7
6	8 11 10.88	4.59	20 6 9.1	0 1.1	0.943251	1589	17 6.9
8	8 11 15.47	2.73	20 6 8.0	0 4.8	0.941662	1579	16 59.2
10	8 11 18.20	0.86	+20 6 12.8	0 10.7	0.940083	1568	16 51.3
12	8 11 19.06	1.02	20 6 23.5	0 16.5	0.938515	1555	16 43.4
14	8 11 18.04	2.89	20 6 40.0	0 22.4	0.936960	1540	16 35.5
16	8 11 15.15	4.76	20 7 2.4	0 28.4	0.935420	1522	16 27.6
18	8 11 10.39	6.63	20 7 30.8	0 34.3	0.933898	1501	16 19.7
20	8 11 3.76	8.49	+20 8 5.1	0 40.1	0.932397	1480	16 11.7
22	8 10 55.27	10.35	20 8 45.2	0 45.9	0.930917	1455	16 3.7
24	8 10 44.92	12.17	20 9 31.1	0 51.5	0.929462	1427	15 55.6
26	8 10 32.75	13.97	20 10 22.6	0 57.2	0.928035	1398	15 47.6
28	8 10 18.78	15.75	20 11 19.8	1 2.7	0.926637	1365	15 39.4
30	8 10 3.03	17.50	+20 12 22.5	1 7.9	0.925272	1331	15 31.3
Dez. 2	8 9 45.53	19.20	20 13 30.4	1 13.1	0.923941	1295	15 23.2
4	8 9 26.33	20.86	20 14 43.5	1 18.0	0.922646	1255	15 15.0
6	8 9 5.47	22.49	20 16 1.5	1 22.9	0.921391	1215	15 6.7
8	8 8 42.98	24.08	20 17 24.4	1 27.5	0.920176	1172	14 58.5
10	8 8 18.90	25.60	+20 18 51.9	1 31.9	0.919004	1127	14 50.2
12	8 7 53.30	27.10	20 20 23.8	1 36.2	0.917877	1081	14 41.9
14	8 7 26.20	28.54	20 22 0.0	1 40.3	0.916796	1031	14 33.6
16	8 6 57.66	29.92	20 23 40.3	1 44.1	0.915765	980	14 25.3
18	8 6 27.74	31.24	20 25 24.4	1 47.7	0.914785	926	14 16.9
20	8 5 56.50	32.51	+20 27 12.1	1 51.1	0.913859	872	14 8.5
22	8 5 23.99	33.70	20 29 3.2	1 54.2	0.912987	814	14 0.1
24	8 4 50.29	34.81	20 30 57.4	1 57.1	0.912173	756	13 51.7
26	8 4 15.48	35.83	20 32 54.5	1 59.5	0.911417	696	13 43.2
28	8 3 39.65	36.78	20 34 54.0	2 1.7	0.910721	633	13 34.8
30	8 3 2.87	37.63	+20 36 55.7	2 3.6	0.910088	571	13 26.3
32	8 2 25.24		20 38 59.3		0.909517		13 17.8

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	s	° ′ ″	′ ″			h m
Jan. 1	21 5 30.73	24.52	—17 20 39.6	1 47.5	1.316727	399	2 25.9
3	21 5 55.25	24.90	17 18 52.1	1 49.2	1.317126	378	2 18.4
5	21 6 20.15	25.26	17 17 2.9	1 50.9	1.317504	357	2 11.0
7	21 6 45.41	25.60	17 15 12.0	1 52.5	1.317861	335	2 3.5
9	21 7 11.01	25.91	17 13 19.5	1 53.9	1.318196	313	1 56.1
11	21 7 36.92	26.21	—17 11 25.6	1 55.3	1.318509	291	1 48.6
13	21 8 3.13	26.47	17 9 30.3	1 56.5	1.318800	270	1 41.2
15	21 8 29.60	26.71	17 7 33.8	1 57.7	1.319070	246	1 33.8
17	21 8 56.31	26.92	17 5 36.1	1 58.8	1.319316	224	1 26.4
19	21 9 23.23	27.12	17 3 37.3	1 59.8	1.319540	202	1 18.9
21	21 9 50.35	27.30	—17 1 37.5	2 0.7	1.319742	178	1 11.5
23	21 10 17.65	27.45	16 59 36.8	2 1.5	1.319920	155	1 4.1
25	21 10 45.10	27.58	16 57 35.3	2 2.2	1.320075	132	0 56.7
27	21 11 12.68	27.68	16 55 33.1	2 2.8	1.320207	109	0 49.3
29	21 11 40.36	27.77	16 53 30.3	2 3.3	1.320316	85	0 41.9
31	21 12 8.13	27.82	—16 51 27.0	2 3.7	1.320401	62	0 34.5
Febr. 2	21 12 35.95	27.86	16 49 23.3	2 4.0	1.320463	38	0 27.1
4	21 13 3.81	27.86	16 47 19.3	2 4.2	1.320501	14	0 19.7
6	21 13 31.67	27.85	16 45 15.1	2 4.2	1.320515	10	0 12.3
8	21 13 59.52	27.81	16 43 10.9	2 4.1	1.320505	33	0 4.9
10	21 14 27.33	27.73	—16 41 6.8	2 4.0	1.320472	56	9) 23 53.8
12	21 14 55.06	27.65	16 39 2.8	2 3.7	1.320416	80	23 46.4
14	21 15 22.71	27.54	16 36 59.1	2 3.3	1.320336	103	23 39.0
16	21 15 50.25	27.40	16 34 55.8	2 2.9	1.320233	126	23 31.6
18	21 16 17.65	27.25	16 32 52.9	2 2.3	1.320107	148	23 24.2
20	21 16 44.90	27.08	—16 30 50.6	2 1.7	1.319959	172	23 16.7
22	21 17 11.98	26.87	16 28 48.9	2 0.8	1.319787	194	23 9.3
24	21 17 38.85	26.66	16 26 48.1	2 0.0	1.319593	216	23 1.9
26	21 18 5.51	26.42	16 24 48.1	1 59.0	1.319377	239	22 54.5
28	21 18 31.93	26.16	16 22 49.1	1 57.9	1.319138	261	22 47.0
März 1	21 18 58.09	25.87	—16 20 51.2	1 56.7	1.318877	283	22 39.6
3	21 19 23.96	25.56	16 18 54.5	1 55.4	1.318594	304	22 32.1
5	21 19 49.52	25.23	16 16 59.1	1 54.0	1.318290	325	22 24.7
7	21 20 14.75	24.87	16 15 5.1	1 52.4	1.317965	347	22 17.2
9	21 20 39.62	24.50	16 13 12.7	1 50.7	1.317618	366	22 9.8
11	21 21 4.12	24.11	—16 11 22.0	1 49.0	1.317252	387	22 2.3
13	21 21 28.23	23.70	16 9 33.0	1 47.2	1.316865	406	21 54.9
15	21 21 51.93	23.26	16 7 45.8	1 45.2	1.316459	425	21 47.4
17	21 22 15.19	22.82	16 6 0.6	1 43.2	1.316034	444	21 40.0
19	21 22 38.01		16 4 17.4		1.315590		21 32.5

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Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
	h m s	s	° ′ ″	′ ″			h m
März 17	21 22 15.19	22.82	−16 6 0.6	1 43.2	1.316034	444	21 40.0
19	21 22 38.01	22.35	16 4 17.4	1 41.2	1.315590	463	21 32.5
21	21 23 0.36	21.87	16 2 36.2	1 39.0	1.315127	480	21 25.0
23	21 23 22.23	21.37	16 0 57.2	1 36.7	1.314647	497	21 17.5
25	21 23 43.60	20.86	15 59 20.5	1 34.3	1.314150	515	21 10.0
27	21 24 4.46	20.32	−15 57 46.2	1 31.9	1.313635	531	21 2.5
29	21 24 24.78	19.77	15 56 14.3	1 29.3	1.313104	547	20 54.9
31	21 24 44.55	19.20	15 54 45.0	1 26.6	1.312557	563	20 47.4
April 2	21 25 3.75	18.61	15 53 18.4	1 23.9	1.311994	578	20 39.8
4	21 25 22.36	18.00	15 51 54.5	1 21.1	1.311416	591	20 32.3
6	21 25 40.36	17.39	−15 50 33.4	1 18.1	1.310825	606	20 24.7
8	21 25 57.75	16.76	15 49 15.3	1 15.2	1.310219	618	20 17.1
10	21 26 14.51	16.11	15 48 0.1	1 12.1	1.309601	631	20 9.5
12	21 26 30.62	15.46	15 46 48.0	1 9.1	1.308970	642	20 1.9
14	21 26 46.08	14.79	15 45 38.9	1 5.9	1.308328	653	19 54.3
16	21 27 0.87	14.11	−15 44 33.0	1 2.6	1.307675	663	19 46.7
18	21 27 14.98	13.42	15 43 30.4	0 59.4	1.307012	673	19 39.0
20	21 27 28.40	12.73	15 42 31.0	0 56.2	1.306339	682	19 31.4
22	21 27 41.13	12.03	15 41 34.8	0 52.7	1.305657	690	19 23.7
24	21 27 53.16	11.30	15 40 42.1	0 49.3	1.304967	698	19 16.1
26	21 28 4.46	10.57	−15 39 52.8	0 45.8	1.304269	705	19 8.4
28	21 28 15.03	9.84	15 39 7.0	0 42.3	1.303564	711	19 0.7
30	21 28 24.87	9.09	15 38 24.7	0 38.7	1.302853	716	18 53.0
Mai 2	21 28 33.96	8.33	15 37 46.0	0 35.0	1.302137	721	18 45.3
4	21 28 42.29	7.57	15 37 11.0	0 31.4	1.301416	725	18 37.5
6	21 28 49.86	6.80	−15 36 39.6	0 27.7	1.300691	727	18 29.8
8	21 28 56.66	6.04	15 36 11.9	0 24.0	1.299964	729	18 22.1
10	21 29 2.70	5.27	15 35 47.9	0 20.3	1.299235	731	18 14.3
12	21 29 7.97	4.50	15 35 27.6	0 16.6	1.298504	730	18 6.5
14	21 29 12.47	3.72	15 35 11.0	0 13.0	1.297774	731	17 58.7
16	21 29 16.19	2.95	−15 34 58.0	0 9.3	1.297043	729	17 50.9
18	21 29 19.14	2.18	15 34 48.7	0 5.5	1.296314	727	17 43.1
20	21 29 21.32	1.41	15 34 43.2	0 1.9	1.295587	724	17 35.3
22	21 29 22.73	0.63	15 34 41.3	0 1.9	1.294863	721	17 27.5
24	21 29 23.36	0.14	15 34 43.2	0 5.5	1.294142	716	17 19.6
26	21 29 23.22	0.91	−15 34 48.7	0 9.3	1.293426	711	17 11.7
28	21 29 22.31	1.68	15 34 58.0	0 12.9	1.292715	705	17 3.8
30	21 29 20.63	2.45	15 35 10.9	0 16.5	1.292010	698	16 55.9
Juni 1	21 29 18.18	3.21	15 35 27.4	0 20.2	1.291312	689	16 48.0
3	21 29 14.97		15 35 47.6		1.290623		16 40.1

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
		h m s	s	° ′ ″	′ ″			h m
Juni	1	21 29 18.18	3.21	—15 35 27.4	0 20.2	1.291312	689	16 48.0
	3	21 29 14.97	3.95	15 35 47.6	0 23.7	1.290623	681	16 40.1
	5	21 29 11.02	4.70	15 36 11.3	0 27.2	1.289942	671	16 32.1
	7	21 29 6.32	5.43	15 36 38.5	0 30.6	1.289271	660	16 24.2
	9	21 29 0.89	6.15	15 37 9.1	0 33.9	1.288611	648	16 16.2
	11	21 28 54.74	6.86	—15 37 43.0	0 37.3	1.287963	637	16 8.3
	13	21 28 47.88	7.55	15 38 20.3	0 40.6	1.287326	623	16 0.3
	15	21 28 40.33	8.24	15 39 0.9	0 43.7	1.286703	610	15 52.3
	17	21 28 32.09	8.91	15 39 44.6	0 46.8	1.286093	596	15 44.3
	19	21 28 23.18	9.57	15 40 31.4	0 49.8	1.285497	580	15 36.3
	21	21 28 13.61	10.22	—15 41 21.2	0 52.8	1.284917	564	15 28.2
	23	21 28 3.39	10.84	15 42 14.0	0 55.7	1.284353	547	15 20.2
	25	21 27 52.55	11.46	15 43 9.7	0 58.5	1.283806	530	15 12.2
	27	21 27 41.09	12.06	15 44 8.2	1 1.2	1.283276	511	15 4.1
	29	21 27 29.03	12.64	15 45 9.4	1 3.8	1.282765	492	14 56.0
Juli	1	21 27 16.39	13.20	—15 46 13.2	1 6.2	1.282273	473	14 48.0
	3	21 27 3.19	13.73	15 47 19.4	1 8.6	1.281800	451	14 39.9
	5	21 26 49.46	14.24	15 48 28.0	1 10.8	1.281349	431	14 31.8
	7	21 26 35.22	14.73	15 49 38.8	1 12.9	1.280918	409	14 23.7
	9	21 26 20.49	15.19	15 50 51.7	1 15.0	1.280509	387	14 15.6
	11	21 26 5.30	15.63	—15 52 6.7	1 16.8	1.280122	364	14 7.4
	13	21 25 49.67	16.05	15 53 23.5	1 18.4	1.279758	341	13 59.3
	15	21 25 33.62	16.43	15 54 41.9	1 20.0	1.279417	317	13 51.2
	17	21 25 17.19	16.80	15 56 1.9	1 21.6	1.279100	293	13 43.1
	19	21 25 0.39	17.15	15 57 23.5	1 23.0	1.278807	269	13 34.9
	21	21 24 43.24	17.46	—15 58 46.5	1 24.2	1.278538	243	13 26.8
	23	21 24 25.78	17.75	16 0 10.7	1 25.3	1.278295	218	13 18.6
	25	21 24 8.03	18.01	16 1 36.0	1 26.2	1.278077	192	13 10.5
	27	21 23 50.02	18.24	16 3 2.2	1 27.0	1.277885	166	13 2.3
	29	21 23 31.78	18.43	16 4 29.2	1 27.7	1.277719	140	12 54.1
	31	21 23 13.35	18.60	—16 5 56.9	1 28.1	1.277579	112	12 45.9
Aug.	2	21 22 54.75	18.73	16 7 25.0	1 28.5	1.277467	86	12 37.7
	4	21 22 36.02	18.84	16 8 53.5	1 28.7	1.277381	59	12 29.6
	6	21 22 17.18	18.91	16 10 22.2	1 28.7	1.277322	31	12 21.4
	8	21 21 58.27	18.95	16 11 50.9	1 28.6	1.277291	5	12 13.2
	10	21 21 39.32	18.96	—16 13 19.5	1 28.3	1.277286	— 23	12 5.0
	12	21 21 20.36	18.94	16 14 47.8	1 28.0	1.277309	49	11 56.9
	14	21 21 1.42	18.89	16 16 15.8	1 27.4	1.277358	77	11 48.7
	16	21 20 42.53	18.81	16 17 43.2	1 26.8	1.277435	104	11 40.5
	18	21 20 23.72		16 19 10.0		1.277539		11 32.3

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Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	s	° ′ ″	′ ″			h m
Aug. 16	21 20 42.53	18.81	−16 17 43.2	1 26.8	1.277435	104	11 40.5
18	21 20 23.72	18.70	16 19 10.0	1 26.0	1.277539	130	11 32.3
20	21 20 5.02	18.57	16 20 36.0	1 25.0	1.277669	157	11 24.2
22	21 19 46.45	18.39	16 22 1.0	1 24.0	1.277826	184	11 16.0
24	21 19 28.06	18.19	16 23 25.0	1 22.8	1.278010	211	11 7.9
26	21 19 9.87	17.95	−16 24 47.8	1 21.4	1.278221	237	10 59.7
28	21 18 51.92	17.69	16 26 9.2	1 19.9	1.278458	263	10 51.5
30	21 18 34.23	17.39	16 27 29.1	1 18.3	1.278721	288	10 43.3
Sept. 1	21 18 16.84	17.06	16 28 47.4	1 16.5	1.279009	313	10 35.2
3	21 17 59.78	16.69	16 30 3.9	1 14.6	1.279322	338	10 27.0
5	21 17 43.09	16.31	−16 31 18.5	1 12.6	1.279660	363	10 18.9
7	21 17 26.78	15.90	16 32 31.1	1 10.4	1.280023	385	10 10.8
9	21 17 10.88	15.47	16 33 41.5	1 8.2	1.280408	409	10 2.7
11	21 16 55.41	15.00	16 34 49.7	1 6.0	1.280817	431	9 54.5
13	21 16 40.41	14.51	16 35 55.7	1 3.5	1.281248	454	9 46.4
15	21 16 25.90	14.00	−16 36 59.2	1 1.0	1.281702	474	9 38.3
17	21 16 11.90	13.47	16 38 0.2	0 58.3	1.282176	496	9 30.2
19	21 15 58.43	12.91	16 38 58.5	0 55.7	1.282672	516	9 22.1
21	21 15 45.52	12.32	16 39 54.2	0 52.9	1.283188	535	9 14.1
23	21 15 33.20	11.72	16 40 47.1	0 50.0	1.283723	554	9 6.0
25	21 15 21.48	11.10	−16 41 37.1	0 46.9	1.284277	572	8 58.0
27	21 15 10.38	10.44	16 42 24.0	0 43.9	1.284849	590	8 49.9
29	21 14 59.94	9.77	16 43 7.9	0 40.7	1.285439	606	8 41.9
Okt. 1	21 14 50.17	9.09	16 43 48.6	0 37.5	1.286045	622	8 33.9
3	21 14 41.08	8.38	16 44 26.1	0 34.2	1.286667	636	8 25.9
5	21 14 32.70	7.67	−16 45 0.3	0 30.8	1.287303	650	8 18.0
7	21 14 25.03	6.94	16 45 31.1	0 27.5	1.287953	663	8 9.9
9	21 14 18.09	6.20	16 45 58.6	0 24.2	1.288616	676	8 1.9
11	21 14 11.89	5.45	16 46 22.8	0 20.7	1.289292	687	7 53.9
13	21 14 6.44	4.69	16 46 43.5	0 17.2	1.289979	697	7 45.9
15	21 14 1.75	3.92	−16 47 0.7	0 13.6	1.290676	707	7 38.0
17	21 13 57.83	3.13	16 47 14.3	0 10.1	1.291383	715	7 30.1
19	21 13 54.70	2.34	16 47 24.4	0 6.5	1.292098	724	7 22.2
21	21 13 52.36	1.55	16 47 30.9	0 2.9	1.292822	731	7 14.3
23	21 13 50.81	0.74	16 47 33.8	0 0.8	1.293553	736	7 6.4
25	21 13 50.07	0.08	−16 47 33.0	0 4.4	1.294289	742	6 58.5
27	21 13 50.15	0.89	16 47 28.6	0 8.2	1.295031	746	6 50.7
29	21 13 51.04	1.71	16 47 20.4	0 11.8	1.295777	750	6 42.8
31	21 13 52.75	2.54	16 47 8.6	0 15.5	1.296527	751	6 35.0
Nov. 2	21 13 55.29		16 46 53.1		1.297278		6 27.2

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Tag		Scheinbare Rektaszension h m s	Diff. s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	log Δ	Diff.	Zeit der oberen Kulmination h m
Okt.	31	21 13 52.75	2.54	—16 47 8.6	0 15.5	1.296527	751	6 35.0
Nov.	2	21 13 55.29	3.35	16 46 53.1	0 19.2	1.297278	753	6 27.2
	4	21 13 58.64	4.16	16 46 33.9	0 22.8	1.298031	753	6 19.4
	6	21 14 2.80	4.98	16 46 11.1	0 26.5	1.298784	753	6 11.6
	8	21 14 7.78	5.78	16 45 44.6	0 30.1	1.299537	751	6 3.8
	10	21 14 13.56	6.58	—16 45 14.5	0 33.6	1.300288	749	5 56.0
	12	21 14 20.14	7.38	16 44 40.9	0 37.3	1.301037	747	5 48.3
	14	21 14 27.52	8.18	16 44 3.6	0 40.8	1.301784	742	5 40.5
	16	21 14 35.70	8.97	16 43 22.8	0 44.4	1.302526	738	5 32.8
	18	21 14 44.67	9.75	16 42 38.4	0 47.8	1.303264	733	5 25.1
	20	21 14 54.42	10.53	—16 41 50.6	0 51.4	1.303997	726	5 17.4
	22	21 15 4.95	11.29	16 40 59.2	0 54.8	1.304723	719	5 9.7
	24	21 15 16.24	12.05	16 40 4.4	0 58.3	1.305442	711	5 2.0
	26	21 15 28.29	12.80	16 39 6.1	1 1.6	1.306153	702	4 54.3
	28	21 15 41.09	13.53	16 38 4.5	1 4.9	1.306855	693	4 46.7
	30	21 15 54.62	14.25	—16 36 59.6	1 8.1	1.307548	682	4 39.0
Dez.	2	21 16 8.87	14.95	16 35 51.5	1 11.4	1.308230	671	4 31.4
	4	21 16 23.82	15.64	16 34 40.1	1 14.5	1.308901	659	4 23.8
	6	21 16 39.46	16.31	16 33 25.6	1 17.5	1.309560	646	4 16.2
	8	21 16 55.77	16.97	16 32 8.1	1 20.5	1.310206	633	4 8.6
	10	21 17 12.74	17.61	—16 30 47.6	1 23.5	1.310839	620	4 1.1
	12	21 17 30.35	18.23	16 29 24.1	1 26.3	1.311459	605	3 53.5
	14	21 17 48.58	18.85	16 27 57.8	1 29.1	1.312064	591	3 45.9
	16	21 18 7.43	19.44	16 26 28.7	1 31.9	1.312655	575	3 38.3
	18	21 18 26.87	20.01	16 24 56.8	1 34.6	1.313230	558	3 30.8
	20	21 18 46.88	20.58	—16 23 22.2	1 37.1	1.313788	542	3 23.3
	22	21 19 7.46	21.12	16 21 45.1	1 39.7	1.314330	525	3 15.8
	24	21 19 28.58	21.64	16 20 5.4	1 42.1	1.314855	506	3 8.3
	26	21 19 50.22	22.14	16 18 23.3	1 44.5	1.315361	488	3 0.8
	28	21 20 12.36	22.61	16 16 38.8	1 46.8	1.315849	469	2 53.3
	30	21 20 34.97	23.06	—16 14 52.0	1 48.8	1.316318	450	2 45.8
	32	21 20 58.03		16 13 3.2		1.316768		2 38.3

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Tag		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
Jan.	1	8h 16m 10.61s	12.83s	+19° 27′ 15.0″	42.3″	1.463860	186	13h 34.6m
	3	8 15 57.78	13.05	19 27 57.3	43.1	1.463674	168	13 26.6
	5	8 15 44.73	13.25	19 28 40.4	43.7	1.463506	150	13 18.5
	7	8 15 31.48	13.43	19 29 24.1	44.2	1.463356	132	13 10.4
	9	8 15 18.05	13.58	19 30 8.3	44.7	1.463224	114	13 2.3
	11	8 15 4.47	13.70	+19 30 53.0	45.1	1.463110	96	12 54.2
	13	8 14 50.77	13.81	19 31 38.1	45.4	1.463014	77	12 46.1
	15	8 14 36.96	13.89	19 32 23.5	45.6	1.462937	59	12 38.0
	17	8 14 23.07	13.96	19 33 9.1	45.8	1.462878	40	12 29.9
	19	8 14 9.11	13.99	19 33 54.9	45.9	1.462838	22	12 21.8
	21	8 13 55.12	14.01	+19 34 40.8	45.9	1.462816	3	12 13.7
	23	8 13 41.11	14.01	19 35 26.7	45.9	1.462813	15	12 5.6
	25	8 13 27.10	13.98	19 36 12.6	45.8	1.462828	34	11 57.6
	27	8 13 13.12	13.93	19 36 58.4	45.6	1.462862	53	11 49.5
	29	8 12 59.19	13.86	19 37 44.0	45.3	1.462915	71	11 41.4
	31	8 12 45.33	13.76	+19 38 29.3	45.0	1.462986	90	11 33.3
Febr.	2	8 12 31.57	13.64	19 39 14.3	44.6	1.463076	108	11 25.2
	4	8 12 17.93	13.50	19 39 58.9	44.2	1.463184	126	11 17.1
	6	8 12 4.43	13.33	19 40 43.1	43.6	1.463310	144	11 9.0
	8	8 11 51.10	13.15	19 41 26.7	43.0	1.463454	161	11 0.9
	10	8 11 37.95	12.94	+19 42 9.7	42.3	1.463615	179	10 52.8
	12	8 11 25.01	12.70	19 42 52.0	41.5	1.463794	196	10 44.7
	14	8 11 12.31	12.45	19 43 33.5	40.7	1.463990	213	10 36.7
	16	8 10 59.86	12.18	19 44 14.2	39.9	1.464203	229	10 28.6
	18	8 10 47.68	11.90	19 44 54.1	39.0	1.464432	245	10 20.5
	20	8 10 35.78	11.59	+19 45 33.1	38.0	1.464677	261	10 12.4
	22	8 10 24.19	11.27	19 46 11.1	37.0	1.464938	277	10 4.4
	24	8 10 12.92	10.92	19 46 48.1	35.9	1.465215	291	9 56.3
	26	8 10 2.00	10.57	19 47 24.0	34.8	1.465506	305	9 48.3
	28	8 9 51.43	10.19	19 47 58.8	33.7	1.465811	320	9 40.3
März	1	8 9 41.24	9.80	+19 48 32.5	32.4	1.466131	333	9 32.3
	3	8 9 31.44	9.40	19 49 4.9	31.2	1.466464	347	9 24.2
	5	8 9 22.04	8.97	19 49 36.1	29.8	1.466811	359	9 16.2
	7	8 9 13.07	8.52	19 50 5.9	28.5	1.467170	372	9 8.2
	9	8 9 4.55	8.07	19 50 34.4	27.1	1.467542	383	9 0.2
	11	8 8 56.48	7.61	+19 51 1.5	25.6	1.467925	394	8 52.2
	13	8 8 48.87	7.13	19 51 27.1	24.2	1.468319	404	8 44.2
	15	8 8 41.74	6.65	19 51 51.3	22.8	1.468723	414	8 36.2
	17	8 8 35.09	6.16	19 52 14.1	21.2	1.469137	424	8 28.3
	19	8 8 28.93		19 52 35.3		1.469561		8 20.3

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Tag	Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
	h m s	s	° ′ ″	″			h m
März 17	8 8 35.09	6.16	+19 52 14.1	21.2	1.469137	424	8 28.3
19	8 8 28.93	5.65	19 52 35.3	19.6	1.469561	432	8 20.3
21	8 8 23.28	5.15	19 52 54.9	18.2	1.469993	441	8 12.3
23	8 8 18.13	4.64	19 53 13.1	16.6	1.470434	448	8 4.4
25	8 8 13.49	4.10	19 53 29.7	15.0	1.470882	455	7 56.5
27	8 8 9.39	3.56	+19 53 44.7	13.3	1.471337	462	7 48.5
29	8 8 5.83	3.03	19 53 58.0	11.7	1.471799	468	7 40.6
31	8 8 2.80	2.48	19 54 9.7	10.0	1.472267	473	7 32.7
April 2	8 8 0.32	1.93	19 54 19.7	8.4	1.472740	478	7 24.8
4	8 7 58.39	1.37	19 54 28.1	6.7	1.473218	482	7 16.9
6	8 7 57.02	0.82	+19 54 34.8	5.0	1.473700	485	7 9.0
8	8 7 56.20	0.27	19 54 39.8	3.3	1.474185	488	7 1.1
10	8 7 55.93	0.29	19 54 43.1	1.6	1.474673	490	6 53.3
12	8 7 56.22	0.85	19 54 44.7	0.1	1.475163	492	6 45.4
14	8 7 57.07	1.41	19 54 44.6	1.8	1.475655	493	6 37.6
16	8 7 58.48	1.96	+19 54 42.8	3.4	1.476148	493	6 29.7
18	8 8 0.44	2.52	19 54 39.4	5.1	1.476641	494	6 21.9
20	8 8 2.96	3.06	19 54 34.3	6.9	1.477135	493	6 14.1
22	8 8 6.02	3.60	19 54 27.4	8.5	1.477628	491	6 6.3
24	8 8 9.62	4.15	19 54 18.9	10.2	1.478119	491	5 58.5
26	8 8 13.77	4.69	+19 54 8.7	11.9	1.478610	488	5 50.7
28	8 8 18.46	5.24	19 53 56.8	13.5	1.479098	485	5 42.9
30	8 8 23.70	5.77	19 53 43.3	15.2	1.479583	481	5 35.1
Mai 2	8 8 29.47	6.30	19 53 28.1	16.8	1.480064	478	5 27.3
4	8 8 35.77	6.82	19 53 11.3	18.4	1.480542	474	5 19.6
6	8 8 42.59	7.34	+19 52 52.9	20.1	1.481016	468	5 11.8
8	8 8 49.93	7.84	19 52 32.8	21.7	1.481484	463	5 4.1
10	8 8 57.77	8.34	19 52 11.1	23.2	1.481947	457	4 56.3
12	8 9 6.11	8.83	19 51 47.9	24.8	1.482404	451	4 48.6
14	8 9 14.94	9.31	19 51 23.1	26.3	1.482855	444	4 40.9
16	8 9 24.25	9.78	+19 50 56.8	27.8	1.483299	437	4 33.2
18	8 9 34.03	10.24	19 50 29.0	29.2	1.483736	429	4 25.5
20	8 9 44.27	10.69	19 49 59.8	30.7	1.484165	420	4 17.9
22	8 9 54.96	11.13	19 49 29.1	32.2	1.484585	413	4 10.2
24	8 10 6.09	11.57	19 48 56.9	33.6	1.484998	404	4 2.5
26	8 10 17.66	11.99	+19 48 23.3	34.9	1.485402	394	3 54.8
28	8 10 29.65	12.40	19 47 48.4	36.3	1.485796	384	3 47.2
30	8 10 42.05	12.81	19 47 12.1	37.7	1.486180	375	3 39.5
Juni 1	8 10 54.86	13.20	19 46 34.4	39.0	1.486555	364	3 31.9
3	8 11 8.06		19 45 55.4		1.486919		3 24.2

0^h mittlere Zeit Greenwich

Tag		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Zeit der oberen Kulmination
		h m s	s	° ′ ″	″			h m
Juni	1	8 10 54.86	13.20	+19 46 34.4	39.0	1.486555	364	3 31.9
	3	8 11 8.06	13.57	19 45 55.4	40.2	1.486919	353	3 24.2
	5	8 11 21.63	13.93	19 45 15.2	41.4	1.487272	342	3 16.6
	7	8 11 35.56	14.28	19 44 33.8	42.7	1.487614	330	3 8.9
	9	8 11 49.84	14.62	19 43 51.1	43.8	1.487944	318	3 1.3
	11	8 12 4.46	14.94	+19 43 7.3	44.9	1.488262	307	2 53.6
	13	8 12 19.40	15.24	19 42 22.4	46.0	1.488569	294	2 46.0
	15	8 12 34.64	15.54	19 41 36.4	47.0	1.488863	281	2 38.4
	17	8 12 50.18	15.82	19 40 49.4	48.1	1.489144	269	2 30.8
	19	8 13 6.00	16.10	19 40 1.3	49.0	1.489413	256	2 23.2
	21	8 13 22.10	16.35	+19 39 12.3	49.9	1.489669	242	2 15.6
	23	8 13 38.45	16.59	19 38 22.4	50.9	1.489911	229	2 8.0
	25	8 13 55.04	16.82	19 37 31.5	51.7	1.490140	215	2 0.4
	27	8 14 11.86	17.03	19 36 39.8	52.6	1.490355	201	1 52.8
	29	8 14 28.89	17.23	19 35 47.2	53.4	1.490556	187	1 45.3
Juli	1	8 14 46.12	17.42	+19 34 53.8	54.1	1.490743	173	1 37.7
	3	8 15 3.54	17.58	19 33 59.7	54.8	1.490916	158	1 30.1
	5	8 15 21.12	17.74	19 33 4.9	55.4	1.491074	143	1 22.5
	7	8 15 38.86	17.87	19 32 9.5	56.0	1.491217	128	1 15.0
	9	8 15 56.73	17.99	19 31 13.5	56.5	1.491345	113	1 7.4
	11	8 16 14.72	18.09	+19 30 17.0	57.0	1.491458	99	0 59.8
	13	8 16 32.81	18.19	19 29 20.0	57.5	1.491557	84	0 52.2
	15	8 16 51.00	18.26	19 28 22.5	57.8	1.491641	69	0 44.7
	17	8 17 9.26	18.32	19 27 24.7	58.2	1.491710	53	0 37.1
	19	8 17 27.58	18.37	19 26 26.5	58.6	1.491763	38	0 29.6
	21	8 17 45.95	18.40	+19 25 27.9	58.8	1.491801	23	0 22.0
	23	8 18 4.35	18.42	19 24 29.1	59.0	1.491824	8	0 14.5
	25	8 18 22.77	18.42	19 23 30.1	59.2	1.491832	−8	0 6.9
	27	8 18 41.19	18.40	19 22 30.9	59.3	1.491824	23	26) 23 55.6
	29	8 18 59.59	18.37	19 21 31.6	59.4	1.491801	39	23 48.0
	31	8 19 17.96	18.32	+19 20 32.2	59.4	1.491762	54	23 40.5
Aug.	2	8 19 36.28	18.26	19 19 32.8	59.4	1.491708	69	23 32.9
	4	8 19 54.54	18.18	19 18 33.4	59.2	1.491639	84	23 25.3
	6	8 20 12.72	18.08	19 17 34.2	58.9	1.491555	100	23 17.7
	8	8 20 30.80	17.97	19 16 35.3	58.8	1.491455	115	23 10.2
	10	8 20 48.77	17.84	+19 15 36.5	58.6	1.491340	130	23 2.6
	12	8 21 6.61	17.70	19 14 37.9	58.2	1.491210	144	22 55.1
	14	8 21 24.31	17.54	19 13 39.7	57.8	1.491066	159	22 47.5
	16	8 21 41.85	17.38	19 12 41.9	57.5	1.490907	174	22 39.9
	18	8 21 59.23		19 11 44.4		1.490733		22 32.4

0ʰ mittlere Zeit Greenwich

Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	s	° ′ ″	″			h m
Aug. 16	8 21 41.85	17.38	+19 12 41.9	57.5	1.490907	174	22 39.9
18	8 21 59.23	17.20	19 11 44.4	57.0	1.490733	188	22 32.4
20	8 22 16.43	17.00	19 10 47.4	56.4	1.490545	203	22 24.8
22	8 22 33.43	16.78	19 9 51.0	55.9	1.490342	217	22 17.2
24	8 22 50.21	16.55	19 8 55.1	55.3	1.490125	231	22 9.6
26	8 23 6.76	16.31	+19 7 59.8	54.5	1.489894	244	22 2.0
28	8 23 23.07	16.05	19 7 5.3	53.7	1.489650	259	21 54.4
30	8 23 39.12	15.77	19 6 11.6	52.9	1.489391	272	21 46.8
Sept. 1	8 23 54.89	15.48	19 5 18.7	52.1	1.489119	284	21 39.2
3	8 24 10.37	15.17	19 4 26.6	51.2	1.488835	298	21 31.6
5	8 24 25.54	14.86	+19 3 35.4	50.2	1.488537	310	21 24.0
7	8 24 40.40	14.53	19 2 45.2	49.1	1.488227	322	21 16.4
9	8 24 54.93	14.18	19 1 56.1	48.0	1.487905	335	21 8.7
11	8 25 9.11	13.83	19 1 8.1	47.0	1.487570	346	21 1.1
13	8 25 22.94	13.47	19 0 21.1	45.8	1.487224	357	20 53.5
15	8 25 36.41	13.09	+18 59 35.3	44.6	1.486867	368	20 45.9
17	8 25 49.50	12.69	18 58 50.7	43.4	1.486499	379	20 38.2
19	8 26 2.19	12.29	18 58 7.3	42.0	1.486120	389	20 30.5
21	8 26 14.48	11.87	18 57 25.3	40.6	1.485731	399	20 22.8
23	8 26 26.35	11.45	18 56 44.7	39.2	1.485332	408	20 15.2
25	8 26 37.80	11.01	+18 56 5.5	37.8	1.484924	418	20 7.5
27	8 26 48.81	10.55	18 55 27.7	36.3	1.484506	427	19 59.8
29	8 26 59.36	10.09	18 54 51.4	34.7	1.484079	435	19 52.1
Okt. 1	8 27 9.45	9.62	18 54 16.7	33.1	1.483644	442	19 44.4
3	8 27 19.07	9.13	18 53 43.6	31.4	1.483202	450	19 36.7
5	8 27 28.20	8.64	+18 53 12.2	29.8	1.482752	456	19 29.0
7	8 27 36.84	8.15	18 52 42.4	28.1	1.482296	463	19 21.3
9	8 27 44.99	7.64	18 52 14.3	26.4	1.481833	469	19 13.6
11	8 27 52.63	7.13	18 51 47.9	24.6	1.481364	474	19 5.8
13	8 27 59.76	6.61	18 51 23.3	22.9	1.480890	479	18 58.1
15	8 28 6.37	6.09	+18 51 0.4	21.0	1.480411	483	18 50.3
17	8 28 12.46	5.56	18 50 39.4	19.2	1.479928	487	18 42.6
19	8 28 18.02	5.01	18 50 20.2	17.3	1.479441	490	18 34.8
21	8 28 23.03	4.47	18 50 2.9	15.4	1.478951	493	18 27.0
23	8 28 27.50	3.92	18 49 47.5	13.5	1.478458	495	18 19.2
25	8 28 31.42	3.36	+18 49 34.0	11.5	1.477963	497	18 11.4
27	8 28 34.78	2.80	18 49 22.5	9.6	1.477466	497	18 3.6
29	8 28 37.58	2.25	18 49 12.9	7.6	1.476969	498	17 55.8
31	8 28 39.83	1.69	18 49 5.3	5.6	1.476471	497	17 47.9
Nov. 2	8 28 41.52		18 48 59.7		1.475974		17 40.1

0h mittlere Zeit Greenwich

Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Zeit der oberen Kulmination
	h m s	s	° ′ ″	″			h m
Okt. 31	8 28 39.83	1.69	+18 49 5.3	5.6	1.476471	497	17 47.9
Nov. 2	8 28 41.52	1.12	18 48 59.7	3.7	1.475974	497	17 40.1
4	8 28 42.64	0.56	18 48 56.0	1.7	1.475477	495	17 32.2
6	8 28 43.20	0.00	18 48 54.3	0.4	1.474982	492	17 24.4
8	8 28 43.20	0.56	18 48 54.7	2.2	1.474490	490	17 16.5
10	8 28 42.64	1.11	+18 48 56.9	4.2	1.474000	487	17 8.7
12	8 28 41.53	1.67	18 49 1.1	6.2	1.473513	482	17 0.8
14	8 28 39.86	2.22	18 49 7.3	8.2	1.473031	478	16 52.9
16	8 28 37.64	2.77	18 49 15.5	10.1	1.472553	473	16 45.0
18	8 28 34.87	3.31	18 49 25.6	12.0	1.472080	467	16 37.1
20	8 28 31.56	3.86	+18 49 37.6	13.9	1.471613	461	16 29.1
22	8 28 27.70	4.39	18 49 51.5	15.8	1.471152	454	16 21.2
24	8 28 23.31	4.92	18 50 7.3	17.7	1.470698	446	16 13.3
26	8 28 18.39	5.45	18 50 25.0	19.6	1.470252	437	16 5.4
28	8 28 12.94	5.96	18 50 44.6	21.4	1.469815	429	15 57.4
30	8 28 6.98	6.45	+18 51 6.0	23.1	1.469386	419	15 49.4
Dez. 2	8 28 0.53	6.94	18 51 29.1	24.8	1.468967	409	15 41.4
4	8 27 53.59	7.42	18 51 53.9	26.5	1.468558	398	15 33.4
6	8 27 46.17	7.88	18 52 20.4	28.1	1.468160	387	15 25.4
8	8 27 38.29	8.34	18 52 48.5	29.7	1.467773	375	15 17.4
10	8 27 29.95	8.78	+18 53 18.2	31.2	1.467398	363	15 9.4
12	8 27 21.17	9.20	18 53 49.4	32.7	1.467035	350	15 1.4
14	8 27 11.97	9.62	18 54 22.1	34.2	1.466685	337	14 53.4
16	8 27 2.35	10.01	18 54 56.3	35.5	1.466348	324	14 45.4
18	8 26 52.34	10.40	18 55 31.8	36.9	1.466024	309	14 37.3
20	8 26 41.94	10.77	+18 56 8.7	38.2	1.465715	295	14 29.3
22	8 26 31.17	11.12	18 56 46.9	39.3	1.465420	279	14 21.3
24	8 26 20.05	11.45	18 57 26.2	40.5	1.465141	264	14 13.3
26	8 26 8.60	11.76	18 58 6.7	41.6	1.464877	248	14 5.2
28	8 25 56.84	12.05	18 58 48.3	42.5	1.464629	231	13 57.1
30	8 25 44.79	12.33	+18 59 30.8	43.5	1.464398	215	13 49.0
32	8 25 32.46		19 0 14.3		1.464183		13 41.0

Mittleres Äquinoktium 1925.0

MERKUR 1916

0h mittl. Zt. Greenw.	log r	Länge in d. Bahn	Red. a. d. Ekl.	Breite	0h mittl. Zt. Greenw.	log r	Länge in d. Bahn	Red. a. d. Ekl.	Breite
Jan. 1	9.6213	312° 48'	− 2'	−6° 59'	Juli 4	9.5665	347° 57'	+11'	−6° 2'
6	9.5931	331 5	+ 6	−6 48	9	9.5321	11 54	+12	−4 4
11	9.5600	352 10	+12	−5 45	14	9.5027	39 44	+ 3	−0 56
16	9.5259	16 50	+11	−3 34	19	9.4882	70 37	− 9	+2 45
21	9.4985	45 21	+ 1	−0 15	24	9.4953	102 3	−12	+5 42
26	9.4879	76 34	−11	+3 24	29	9.5205	131 9	− 3	+6 58
31	9.4989	107 45	−11	+6 5	Aug. 3	9.5541	156 28	+ 8	+6 37
Febr. 5	9.5265	136 12	− 1	+7 0	8	9.5878	178 7	+13	+5 18
10	9.5606	160 48	+ 9	+6 26	13	9.6170	196 49	+11	+3 34
15	9.5937	181 49	+13	+5 0	18	9.6400	213 23	+ 6	+1 42
20	9.6218	200 4	+10	+3 13	23	9.6563	228 31	0	−0 8
25	9.6435	216 19	+ 5	+1 21	28	9.6659	242 46	− 7	−1 51
März 1	9.6586	231 15	− 2	−0 28	Sept. 2	9.6690	256 37	−11	−3 24
6	9.6670	245 23	− 8	−2 9	7	9.6656	270 28	−13	−4 46
11	9.6689	259 12	−11	−3 41	12	9.6556	284 45	−12	−5 53
16	9.6642	273 6	−13	−5 0	17	9.6390	299 56	− 7	−6 41
21	9.6530	287 31	−11	−6 4	22	9.6157	316 36	0	−7 0
26	9.6351	302 56	− 6	−6 47	27	9.5862	335 25	+ 8	−6 40
31	9.6106	319 57	+ 1	−7 0	Okt. 2	9.5524	357 14	+13	−5 23
April 5	9.5801	339 16	+ 9	−6 30	7	9.5190	22 45	+10	−2 55
10	9.5459	1 43	+13	−5 1	12	9.4944	52 1	− 2	+0 33
15	9.5134	27 59	+ 8	−2 20	17	9.4884	83 29	−12	+4 7
20	9.4917	57 50	− 5	+1 16	22	9.5038	114 16	− 9	+6 26
25	9.4898	89 25	−13	+4 41	27	9.5337	141 55	+ 2	+6 59
30	9.5087	119 45	− 7	+6 40	Nov. 1	9.5681	165 40	+11	+6 10
Mai 5	9.5401	146 40	+ 4	+6 55	6	9.6003	186 1	+13	+4 38
10	9.5745	169 44	+12	+5 55	11	9.6271	203 46	+ 9	+2 49
15	9.6058	189 31	+12	+4 18	16	9.6474	219 40	+ 3	+0 57
20	9.6314	206 52	+ 8	+2 27	21	9.6610	234 23	− 3	−0 51
25	9.6505	222 30	+ 2	+0 36	26	9.6680	248 25	− 9	−2 30
30	9.6628	237 3	− 4	−1 10	Dez. 1	9.6684	262 13	−12	−3 59
Juni 4	9.6686	251 1	− 9	−2 48	6	9.6624	276 11	−13	−5 16
9	9.6678	264 49	−12	−4 15	11	9.6497	290 47	−10	−6 15
14	9.6605	278 52	−13	−5 28	16	9.6303	306 29	− 5	−6 53
19	9.6466	293 38	−10	−6 24	21	9.6044	323 56	+ 3	−6 58
24	9.6260	309 37	− 3	−6 56	26	9.5728	343 52	+10	−6 16
29	9.5989	327 28	+ 4	−6 54	31	9.5384	7 7	+13	−4 32
Juli 4	9.5665	347 57	+11	−6 2	36	9.5073	34 14	+ 6	−1 36

$\Omega = 47° \, 27'.2$; $i = 7° \, 0'.23$; $m = \frac{1}{6000000}$

Mittleres Äquinoktium 1925.0

0h mittl. Zt. Greenwich	log r	Länge in der Bahn	Red. auf d. Eklipt.	Breite	log r	Länge in der Bahn	Red. auf d. Eklipt.	Breite
	VENUS 1916				**MARS 1916**			
Jan. 1	9.86173	345° 30'.9	−0'.1	−3° 23'.6	0.21488	122° 34'.2	−0'.5	+1° 46'.5
11	9.86117	1 22.8	+1.5	−3 16.4	0.21659	127 3.3	−0.4	+1 48.7
21	9.86047	17 17.5	+2.7	−2 54.0	0.21806	131 30.4	−0.2	+1 50.1
31	9.85968	33 15.4	+3.0	−2 18.2	0.21928	135 55.9	−0.1	+1 50.9
Febr. 10	9.85886	49 17.0	+2.4	−1 31.6	0.22025	140 20.1	0.0	+1 51.0
20	9.85807	65 22.1	+1.1	−0 37.7	0.22096	144 43.2	+0.2	+1 50.5
März 1	9.85738	81 30.6	−0.6	+0 19.4	0.22142	149 5.6	+0.3	+1 49.3
11	9.85684	97 41.8	−2.1	+1 15.2	0.22162	153 27.6	+0.4	+1 47.5
21	9.85650	113 55.0	−2.9	+2 5.0	0.22155	157 49.6	+0.5	+1 45.1
31	9.85637	130 9.3	−2.9	+2 45.0	0.22123	162 11.8	+0.6	+1 42.1
April 10	9.85649	146 23.6	−1.9	+3 11.8	0.22065	166 34.5	+0.7	+1 38.4
20	9.85682	162 36.9	−0.4	+3 23.3	0.21982	170 58.1	+0.8	+1 34.2
30	9.85736	178 48.2	+1.3	+3 18.6	0.21873	175 22.8	+0.9	+1 29.4
Mai 10	9.85805	194 56.8	+2.6	+2 58.2	0.21739	179 49.0	+0.9	+1 24.0
20	9.85883	211 2.0	+3.0	+2 23.9	0.21580	184 17.0	+0.9	+1 18.1
30	9.85966	227 3.7	+2.5	+1 38.6	0.21398	188 47.2	+0.9	+1 11.7
Juni 9	9.86045	243 1.8	+1.3	+0 45.8	0.21191	193 19.8	+0.9	+1 4.8
19	9.86116	258 56.5	−0.3	−0 10.3	0.20963	197 55.1	+0.8	+0 57.3
29	9.86173	274 48.5	−1.8	−1 5.5	0.20712	202 33.5	+0.7	+0 49.5
Juli 9	9.86211	290 38.3	−2.8	−1 55.6	0.20441	207 15.2	+0.6	+0 41.1
19	9.86228	306 26.9	−3.0	−2 36.9	0.20150	212 0.7	+0.5	+0 32.5
29	9.86223	322 15.3	−2.2	−3 6.3	0.19841	216 50.1	+0.4	+0 23.4
Aug. 8	9.86195	338 4.4	−0.8	−3 21.7	0.19515	221 43.7	+0.2	+0 14.1
18	9.86148	353 55.1	+0.8	−3 21.7	0.19175	226 41.9	+0.1	+0 4.5
28	9.86084	9 48.2	+2.2	−3 6.3	0.18823	231 44.9	−0.1	−0 5.3
Sept. 7	9.86008	25 44.5	+3.0	−2 36.6	0.18460	236 52.9	−0.2	−0 15.2
17	9.85926	41 44.3	+2.8	−1 54.7	0.18089	242 6.1	−0.4	−0 25.2
27	9.85845	57 47.7	+1.8	−1 3.7	0.17714	247 24.8	−0.5	−0 35.1
Okt. 7	9.85770	73 54.6	+0.2	−0 7.5	0.17338	252 49.1	−0.6	−0 44.8
17	9.85708	90 4.5	−1.4	+0 49.4	0.16963	258 19.0	−0.7	−0 54.4
27	9.85663	106 16.9	−2.6	+1 42.6	0.16594	263 54.6	−0.8	−1 3.5
Nov. 6	9.85640	122 30.8	−3.0	+2 27.6	0.16235	269 35.9	−0.9	−1 12.3
16	9.85639	138 45.3	−2.5	+3 1.0	0.15889	275 22.8	−0.9	−1 20.4
26	9.85662	154 59.3	−1.1	+3 19.9	0.15560	281 15.1	−0.9	−1 27.8
Dez. 6	9.85707	171 11.7	+0.5	+3 22.8	0.15254	287 12.7	−0.8	−1 34.4
16	9.85769	187 21.7	+2.0	+3 9.7	0.14975	293 15.1	−0.7	−1 40.0
26	9.85843	203 28.7	+2.9	+2 41.6	0.14725	299 21.9	−0.6	−1 44.6
36	9.85925	219 32.1	+2.9	+2 1.1	0,14509	305 32.6	−0.4	−1 48.0

Venus: $\Omega = 76^\circ\ 1'.8$; $i = 3^\circ\ 23'.64$; $m = \frac{1}{408000}$

Mars: $\Omega = 49^\circ\ 0'.3$; $i = 1^\circ\ 51'.06$; $m = \frac{1}{3093500}$

Mittleres Äquinoktium 1925.0

0h mittl. Zt. Greenwich	log R	Länge	log r	Länge in der Bahn	Red. auf d. Eklipt.	Breite	B_0
	ERDE 1916		JUPITER 1916				
		° ′		° ′ ″	″	° ′ ″	″
Jan. 1	9.99267	99 53.0	0.695127	3 18 41.0	— 6.0	—1 18 1.5	—4.3
11	9.99274	110 4.5	0.695075	4 13 34.1	— 5.1	—1 18 9.4	—4.3
21	9.99304	120 15.5	0.695029	5 8 28.1	— 4.3	—1 18 15.8	—4.2
31	9.99355	130 25.4	0.694987	6 3 22.7	— 3.4	—1 18 21.1	—4.2
Febr. 10	9.99425	140 33.6	0.694950	6 58 17.8	— 2.6	—1 18 25.2	—4.1
20	9.99513	150 39.5	0.694918	7 53 13.4	— 1.7	—1 18 28.1	—4.1
März 1	9.99615	160 42.9	0.694892	8 48 9.5	— 0.9	—1 18 29.9	—4.0
11	9.99728	170 43.2	0.694870	9 43 6.0	0.0	—1 18 30.4	—4.0
21	9.99848	180 40.3	0.694853	10 38 2.7	+ 0.8	—1 18 29.7	—3.9
31	9.99973	190 34.0	0.694842	11 32 59.5	+ 1.7	—1 18 27.8	—3.9
April 10	0.00098	200 24.3	0.694836	12 27 56.6	+ 2.6	—1 18 24.6	—3.8
20	0.00219	210 11.3	0.694834	13 22 53.7	+ 3.4	—1 18 20.4	—3.7
30	0.00333	219 55.1	0.694838	14 17 50.7	+ 4.3	—1 18 14.8	—3.6
Mai 10	0.00437	229 36.0	0.694847	15 12 47.7	+ 5.1	—1 18 8.1	—3.6
20	0.00528	239 14.3	0.694861	16 7 44.5	+ 6.0	—1 18 0.2	—3.5
30	0.00604	248 50.3	0.694880	17 2 41.1	+ 6.8	—1 17 51.1	—3.4
Juni 9	0.00662	258 24.6	0.694904	17 57 37.3	+ 7.6	—1 17 40.8	—3.3
19	0.00701	267 57.6	0.694933	18 52 33.1	+ 8.4	—1 17 29.3	—3.3
29	0.00720	277 29.8	0.694968	19 47 28.5	+ 9.2	—1 17 16.6	—3.2
Juli 9	0.00719	287 1.7	0.695007	20 42 23.4	+10.0	—1 17 2.8	—3.1
19	0.00697	296 34.0	0.695051	21 37 17.6	+10.8	—1 16 47.8	—3.0
29	0.00656	306 7.2	0.695101	22 32 11.1	+11.6	—1 16 31.6	—3.0
Aug. 8	0.00595	315 41.6	0.695155	23 27 3.8	+12.4	—1 16 14.2	—2.9
18	0.00518	325 17.8	0.695214	24 21 55.7	+13.2	—1 15 55.7	—2.8
28	0.00425	334 56.4	0.695278	25 16 46.6	+13.9	—1 15 36.1	—2.7
Sept. 7	0.00320	344 37.6	0.695347	26 11 36.5	+14.6	—1 15 15.2	—2.6
17	0.00204	354 21.8	0.695421	27 6 25.4	+15.3	—1 14 53.3	—2.5
27	0.00082	4 9.2	0.695500	28 1 13.1	+16.0	—1 14 30.1	—2.4
Okt. 7	9.99957	13 59.9	0.695584	28 55 59.5	+16.7	—1 14 5.9	—2.3
17	9.99833	23 54.1	0.695673	29 50 44.6	+17.4	—1 13 40.6	—2.2
27	9.99713	33 51.6	0.695766	30 45 28.3	+18.0	—1 13 14.1	—2.1
Nov. 6	9.99601	43 52.3	0.695864	31 40 10.6	+18.6	—1 12 46.6	—2.0
16	9.99501	53 56.0	0.695967	32 34 51.4	+19.2	—1 12 17.9	—1.9
26	9.99415	64 2.3	0.696075	33 29 30.6	+19.8	—1 11 48.1	—1.8
Dez. 6	9.99347	74 10.7	0.696187	34 24 8.1	+20.4	—1 11 17.3	—1.7
16	9.99299	84 20.7	0.696304	35 18 43.9	+21.0	—1 10 45.4	—1.6
26	9.99273	94 31.8	0.696426	36 13 17.9	+21.5	—1 10 12.5	—1.5
36	9.99268	104 43.4	0.696552	37 7 50.0	+22.0	—1 9 38.5	—1.4

Erde: $m = \frac{1}{329390}$

Jupiter: $\Omega = 99^\circ 41' 52''.2;\quad i = 1^\circ 18' 26''.4;\quad m = \frac{1}{1047.35}$

Mittleres Äquinoktium 1925.0

SATURN 1916

0^h mittl. Zeit Greenwich	log r	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1916 Jan. 1	0.955376	103° 1′ 7.3″	+33.5″	−0° 26′ 3.9″	− 9.0″
Febr. 10	0.955506	104 30 44.8	+28.6	−0 22 13.2	− 9.0
März 21	0.955652	106 0 19.3	+23.7	−0 18 21.8	− 9.1
April 30	0.955813	107 29 50.3	+18.8	−0 14 29.8	− 9.1
Juni 9	0.955988	108 59 17.5	+13.8	−0 10 37.4	− 9.2
Juli 19	0.956179	110 28 40.6	+ 8.7	−0 6 44.8	− 9.3
Aug. 28	0.956384	111 57 59.1	+ 3.7	−0 2 52.1	− 9.5
Okt. 7	0.956604	113 27 12.8	− 1.4	+0 1 0.5	− 9.6
Nov. 16	0.956838	114 56 21.3	− 6.4	+0 4 52.8	− 9.7
Dez. 26	0.957087	116 25 24.2	−11.5	+0 8 44.7	− 9.8
1917 Febr. 4	0.957349	117 54 21.3	−16.5	+0 12 35.9	−10.0

$☊ = 113° 0' 20''.6$; $i = 2° 29' 28''.7$; $m = \frac{1}{3501.6}$

URANUS 1916

0^h mittl. Zeit Greenwich	log r	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1916 Jan. 1	1.299467	315° 25′ 18.8″	− 7.8″	−0° 40′ 51.5″	+ 0.4″
Febr. 10	1.299553	315 51 25.0	− 7.7	−0 41 1.4	+ 0.4
März 21	1.299637	316 17 30.5	− 7.7	−0 41 11.1	+ 0.4
April 30	1.299720	316 43 35.2	− 7.6	−0 41 20.8	+ 0.4
Juni 9	1.299802	317 9 39.1	− 7.5	−0 41 30.3	+ 0.3
Juli 19	1.299883	317 35 42.2	− 7.4	−0 41 39.6	+ 0.3
Aug. 28	1.299963	318 1 44.6	− 7.3	−0 41 48.8	+ 0.3
Okt. 7	1.300041	318 27 46.3	− 7.2	−0 41 57.8	+ 0.3
Nov. 16	1.300119	318 53 47.2	− 7.1	−0 42 6.7	+ 0.3
Dez. 26	1.300195	319 19 47.4	− 7.0	−0 42 15.3	+ 0.3
1917 Febr. 4	1.300270	319 45 46.9	− 6.9	−0 42 24.0	+ 0.3

$☊ = 73° 37'$; $i = 0° 46' 22''$; $m = \frac{1}{22869}$

NEPTUN 1916

0^h mittl. Zeit Greenwich	log r	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1916 Jan. 1	1.477282	121° 16′ 8.5″	+16.5″	−0° 17′ 55.9″	− 0.3″
Febr. 10	1.477301	121 30 32.6	+16.1	−0 17 29.4	− 0.2
März 21	1.477320	121 44 56.7	+15.7	−0 17 2.9	− 0.2
April 30	1.477339	121 59 20.9	+15.3	−0 16 36.4	− 0.2
Juni 9	1.477358	122 13 45.2	+14.9	−0 16 9.9	− 0.1
Juli 19	1.477378	122 28 9.5	+14.5	−0 15 43.4	− 0.1
Aug. 28	1.477397	122 42 33.9	+14.1	−0 15 16.8	− 0.1
Okt. 7	1.477416	122 56 58.3	+13.7	−0 14 50.3	0.0
Nov. 16	1.477436	123 11 22.7	+13.3	−0 14 23.7	0.0
Dez. 26	1.477455	123 25 47.2	+12.9	−0 13 57.1	0.0
1917 Febr. 4	1.477474	123 40 11.8	+12.5	−0 13 30.4	+ 0.1

$☊ = 130° 57'$; $i = 1° 46' 37''$; $m = \frac{1}{19314}$

Mittlere und Scheinbare Sternörter.

Reduktionskonstanten.

Mittlere Sternörter 1916

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
1	α Androm.	2.1	0h 4m 2s.532	+3s.0961	+ 107	+28° 37′ 36″.08	+19″.882	— 161
2	β Cassiopejae	2.2	0 4 41.184	+3.1850	+ 675	+58 41 11.25	+19.862	— 180
3	ε Phoenicis	3.8	0 5 9.027	+3.0512	+ 99	—46 12 39.65	+19.848	— 192
4	[22 Androm.]	5.2	0 5 56.929	+3.1088	+ 8	+45 36 17.24	+20.036	— 3
5	[κ² Sculptoris]	5.5	0 7 18.611	+3.0501	+ 4	—28 16 3.98	+20.041	+ 6
6	[ϑ Sculptoris]	5.3	0 7 27.847	+3.0519	+ 104	—35 36 12.19	+20.159	+ 124
7	γ Pegasi	2.7	0 8 54.489	+3.0863	+ 1	+14 42 59.53	+20.017	— 14
8	[Br. 6]	6.5	0 11 26.726	+3.3569	+ 67	+76 29 2.57	+20.022	+ 2
9	ι Ceti	3.5	0 15 8.888	+3.0567	— 15	— 9 17 22.46	+19.970	— 32
10	ζ Tucanae	4.2	0 15 42.092	+3.1435	+2704	—65 22 6.68	+21.152	+1154
11	β Hydri	2.8	0 21 21.443	+3.1995	+6985	—77 43 38.26	+20.277	+ 318
12	α Phoenicis	2.3	0 22 8.038	+2.9703	+ 168	—42 45 44.14	+19.543	— 409
13	12 Ceti	6.1	0 25 45.119	+3.0618	+ 8	— 4 25 16.96	+19.911	— 8
14	[Ceti 49 G.]	5.3	0 26 10.742	+3.0015	— 25	—24 15 8.55	+19.924	+ 9
15	[λ¹ Phoenicis]	4.7	0 27 21.990	+2.9000	+ 123	—49 16 5.10	+19.915	+ 12
16	[κ Cassiop.]	4.2	0 28 12.843	+3.3886	+ 11	+62 28 6.01	+19.897	+ 3
17	ζ Cassiopejae	3.8	0 32 16.978	+3.3279	+ 23	+53 26 5.11	+19.840	— 7
18	π Androm.	4.2	0 32 23.406	+3.1978	+ 17	+33 15 25.46	+19.846	0
19	[ε Androm.]	4.3	0 34 6.770	+3.1645	— 173	+28 51 20.90	+19.573	— 251
20	δ Androm.	3.2	0 34 49.915	+3.2019	+ 106	+30 24 5.48	+19.731	— 84
21	α Cassiopejae	(2.2)	0 35 43.851	+3.3871	+ 60	+56 4 36.60	+19.773	— 29
22	β Ceti	2.2	0 39 22.418	+3.0124	+ 160	—18 26 51.12	+19.789	+ 39
23	[η Phoenicis]	4.3	0 39 35.048	+2.7067	+ 5	—57 55 25.75	+19.739	— 8
25	ο Cassiopejae	4.7	0 40 2.233	+3.3312	+ 22	+47 49 29.22	+19.732	— 8
24	21 Cassiopejae	5.8	0 40 4.560	+3.9069	— 57	+74 31 44.69	+19.717	— 23
26	[λ² Sculptoris]	5.9	0 40 8.452	+2.9026	+ 178	—38 53 3.99	+19.853	+ 115
27	ζ Androm.	4.1	0 42 52.955	+3.1748	— 75	+23 48 37.37	+19.617	— 79
28	[δ Piscium]	4.4	0 44 19.345	+3.1100	+ 52	+ 7 7 41.11	+19.626	— 46
29	[Br. 82]	5.7	0 45 37.032	+3.6154	+ 59	+63 47 25.66	+19.645	— 5
31	[λ Hydri]	5.3	0 45 40.985	+2.0982	+ 400	—75 22 50.18	+19.622	— 26
30	[19 Ceti]	5.4	0 45 55.159	+3.0046	— 159	—11 5 47.52	+19.422	— 223
32	γ Cassiopejae	2.0	0 51 37.615	+3.5988	+ 37	+60 15 43.59	+19.535	— 4
34	[λ² Tucanae]	5.3	0 51 52.083	+2.2463	— 33	—69 58 52.45	+19.489	— 45
33	μ Androm.	3.9	0 52 5.116	+3.3211	+ 129	+38 2 38.34	+19.566	+ 36
35	α Sculptoris	4.1	0 54 33.523	+2.8916	— 5	—29 48 40.86	+19.475	— 5
36	ε Piscium	4.2	0 58 34.906	+3.1112	— 55	+ 7 26 17.41	+19.425	+ 30
37	[26 Ceti]	6.2	0 59 29.577	+3.0862	+ 81	+ 0 55 0.43	+19.335	— 39
38	β Phoenicis	3.2	1 2 20.159	+2.6798	— 56	—47 10 6.68	+19.293	— 15
39	[ι Tucanae]	5.5	1 3 59.199	+2.3835	+ 101	—62 13 25.45	+19.265	— 4
40	[η Ceti]	3.3	1 4 21.808	+3.0169	+ 138	—10 37 38.28	+19.129	— 132

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
41	[44 H. Ceph.]	5.7	1h 4m 57s.932	+5s.0702	+ 332	+79° 13′ 38″.28	+19″.255	+ 9
42	β Androm.	2.1	1 5 1.421	+3.3514	+ 151	+35 10 31.90	+19.132	−112
43	[τ Piscium]	4.3	1 7 1.780	+3.2975	+ 56	+29 38 37.98	+19.153	− 41
44	[Sculpt. 102 G.]	6.0	1 8 53.204	+2.7640	+ 39	−38 18 5.12	+19.120	− 27
45	υ Piscium	4.6	1 14 50.710	+3.2909	+ 15	+26 49 22.25	+18.975	− 11
47	ϑ Ceti	3.4	1 19 49.453	+2.9980	− 55	− 8 36 59.42	+18.628	−214
46	[ψ Cassiop.]	5.0	1 19 58.788	+4.1998	+ 134	+67 41 31.40	+18.870	+ 33
48	δ Cassiopejae	2.7	1 20 18.487	+3.9005	+ 398	+59 47 56.92	+18.785	− 43
49	[γ Phoenicis]	3.2	1 24 43.067	+2.6067	− 38	−43 44 54.23	+18.474	−218
50	η Piscium	3.6	1 26 59.128	+3.2060	+ 15	+14 54 47.15	+18.612	− 7
51	40 Cassiopejae	5.5	1 31 46.491	+4.7343	− 19	+72 36 44.93	+18.454	− 6
52	υ Persei	3.6	1 32 49.673	+3.6680	+ 64	+48 12 10.99	+18.311	−113
53	[Hydri 14 G.]	6.3	1 33 4.879	+0.3670	− 69	−78 55 52.22	+18.287	−128
54	α Eridani	1	1 34 35.286	+2.2381	+ 122	−57 39 47.76	+18.325	− 38
55	43 Cassiopejae	5.9	1 36 5.963	+4.4027	+ 88	+67 37 7.47	+18.308	− 2
56	[ν Piscium]	4.5	1 37 3.485	+3.1196	− 16	+ 5 3 46.37	+18.276	+ 2
58	[Sculpt. 129 G.]	5.8	1 38 20.782	+2.6440	− 58	−37 15 20.77	+18.205	− 23
57	φ Persei	4.1	1 38 23.188	+3.7444	+ 26	+50 15 57.72	+18.212	− 15
59	τ Ceti	3.4	1 40 9.935	+2.7868	−1195	−16 22 46.42	+19.013	+851
60	ο Piscium	4.3	1 40 57.336	+3.1649	+ 47	+ 8 44 7.35	+18.182	+ 50
61	Lac. ε Sculpt.	5.3	1 41 42.668	+2.8092	+ 99	−25 28 20.28	+18.029	− 75
62	ζ Ceti	3.5	1 47 18.804	+2.9603	+ 22	−10 44 58.77	+17.854	− 34
64	α Trianguli	3.5	1 48 17.311	+3.4133	+ 11	+29 10 12.29	+17.616	−233
63	ε Cassiopejae	3.3	1 48 20.164	+4.2852	+ 50	+63 15 25.26	+17.833	− 15
65	ξ Piscium	4.6	1 49 12.308	+3.1037	+ 13	+ 2 46 23.60	+17.832	+ 19
66	β Arietis	2.7	1 49 59.753	+3.3086	+ 65	+20 23 52.40	+17.672	−109
67	ψ Phoenicis	4.5	1 50 16.748	+2.4065	− 95	−46 42 50.06	+17.668	−101
68	χ Eridani	3.6	1 52 41.319	+2.3356	+ 713	−52 1 36.87	+17.941	+271
69	[η^2 Hydri]	4.7	1 52 48.257	+1.5168	+ 119	−68 3 36.98	+17.745	+ 79
71	υ Ceti	3.9	1 56 2.827	+2.8266	+ 91	−21 29 3.90	+17.516	− 14
72	α Hydri	2.9	1 56 7.349	+1.8902	+ 361	−61 58 42.11	+17.548	+ 21
70	50 Cassiopejae	4.0	1 56 13.958	+5.0630	− 91	+72 0 56.04	+17.547	+ 25
73	γ Androm.	2.1	1 58 44.173	+3.6713	+ 43	+41 55 37.73	+17.361	− 54
74	α Arietis	2.0	2 2 26.037	+3.3761	+ 137	+23 3 56.88	+17.110	−143
75	β Trianguli	3.0	2 4 32.373	+3.5613	+ 122	+34 35 25.90	+17.118	− 40
76	55 Cassiopejae	6.3	2 7 52.292	+4.6706	− 10	+66 7 53.32	+17.008	+ 3
77	[6 Persei]	5.7	2 8 0.562	+3.9739	+ 367	+50 40 34.32	+16.831	−169
78	Lac. μ Forn.	5.2	2 9 12.563	+2.6428	+ 13	−31 7 2.96	+16.945	+ 2
79	[γ Trianguli]	4.2	2 12 18.908	+3.5584	+ 37	+33 27 33.65	+16.753	− 44
80	67 Ceti	5.8	2 12 47.547	+2.9907	+ 55	− 6 48 31.60	+16.664	−110

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
			h m s	s		° ′ ″	″	
81	[ϑ Arietis]	5.7	2 13 26.979	+3.3321	— 10	+19 30 47.20	+16.741	— 2
82	[φ Eridani]	3.5	2 13 30.471	+2.1431	+ 81	—51 54 2.71	+16.704	— 36
83	[ϰ Fornacis]	5.4	2 18 41.931	+2.7452	+ 142	—24 11 51.38	+16.423	— 63
84	[λ Horologii]	5.5	2 22 32.946	+1.6764	— 95	—60 41 15.71	+16.154	—137
85	ξ^2 Ceti	4.2	2 23 41.433	+3.1866	+ 26	+ 8 5 2.84	+16.229	— 4
86	[ϰ Eridani]	4.1	2 23 54.304	+2.1981	— 2	—48 4 50.17	+16.199	— 23
88	[λ^1 Fornacis]	6.0	2 29 36.785	+2.4996	— 43	—35 1 8.89	+15.892	— 32
87	36 H. Cassiop.	5.4	2 30 0.939	+5.6395	— 60	+72 27 6.91	+15.923	+ 21
90	μ Hydri	5.5	2 33 25.272	—1.3439	+ 473	—79 28 33.59	+15.687	— 33
89	ν Arietis	5.6	2 34 2.559	+3.4012	— 9	+21 35 55.75	+15.670	— 16
91	δ Ceti	3.9	2 35 10.510	+3.0728	+ 7	— 0 1 59.81	+15.622	— 2
92	[Br. 366]	6.3	2 37 34.691	+5.1195	+ 25	+67 28 7.36	+15.463	— 29
95	[ε Hydri]	4.0	2 38 17.548	+0.9142	+ 169	—68 37 36.20	+15.456	+ 5
93	ϑ Persei	4.1	2 38 27.236	+4.0831	+ 346	+48 52 26.12	+15.354	— 88
94	[35 Arietis]	4.7	2 38 31.079	+3.5139	+ 4	+27 21 1.46	+15.432	— 7
96	[γ Ceti]	3.4	2 38 56.764	+3.1058	— 98	+ 2 52 56.61	+15.267	—148
97	π Ceti	4.0	2 40 7.446	+2.8541	— 8	—14 12 49.95	+15.340	— 9
98	μ Ceti	4.2	2 40 23.918	+3.2396	+ 189	+ 9 45 36.36	+15.303	— 31
99	[η Persei]	3.8	2 44 33.504	+4.3569	+ 28	+55 32 51.86	+15.086	— 11
100	41 Arietis	3.6	2 45 2.105	+3.5251	+ 51	+26 54 53.96	+14.956	—113
101	β Fornacis	4.4	2 45 34.472	+2.5103	+ 63	—32 45 29.51	+15.197	+159
102	τ^2 Eridani	4.8	2 47 13.677	+2.7205	— 39	—21 20 59.47	+14.912	— 29
103	τ Persei	4.0	2 48 17.542	+4.2365	+ 3	+52 25 10.41	+14.878	— 2
104	η Eridani	3.7	2 52 19.365	+2.9295	+ 52	— 9 13 54.79	+14.423	—218
105	47 H. Cephei	5.8	2 54 51.676	+7.8519	— 113	+79 5 18.45	+14.510	+ 21
106	ϑ Eridani	2.9	2 55 4.479	+2.2724	— 68	—40 38 26.61	+14.503	+ 28
107	α Ceti	2.5	2 57 53.178	+3.1333	— 9	+ 3 45 39.01	+14.228	— 76
108	γ Persei	3.0	2 58 42.163	+4.3278	+ 2	+53 10 42.15	+14.251	— 4
109	ρ Persei	(3.8)	2 59 47.267	+3.8354	+ 114	+38 30 56.23	+14.084	—103
110	μ Horologii	5.1	3 1 37.853	+1.4084	— 117	—60 3 47.89	+14.005	— 68
113	[ϑ Hydri]	5.7	3 2 4.319	+0.1026	+ 51	—72 13 49.51	+14.068	+ 22
111	β Persei	(2.2)	3 2 41.830	+3.8937	+ 7	+40 37 58.37	+14.005	— 1
112	[ι Persei]	4.1	3 2 59.780	+4.3148	+1295	+49 17 35.84	+13.907	— 81
114	δ Arietis	4.3	3 6 49.340	+3.4259	+ 106	+19 24 35.22	+13.742	— 4
116	[94 Ceti]	5.2	3 8 29.159	+3.0605	+ 136	— 1 30 34.68	+13.579	— 61
117	12 Eridani	3.6	3 8 30.100	+2.5467	+ 241	—29 19 3.64	+14.283	+644
115	48 H. Cephei	5.9	3 9 36.706	+7.5019	+ 183	+77 25 40.37	+13.524	— 44
118	[Horol. 38 G.]	6.1	3 10 25.278	+1.5148	— 5	—57 38 9.11	+13.509	— 6
119	[e Eridani]	4.2	3 16 34.418	+2.3958	+2787	—43 23 26.49	+13.848	+734
120	α Persei	1.9	3 18 19.056	+4.2694	+ 29	+49 33 47.39	+12.972	— 26

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
			h m s	s		° ′ ″	″	
121	ο Tauri	3.6	3 20 17.438	+3.2257	− 44	+ 8 44 2.29	+12.790	− 76
122	2 H. Camelop.	4.4	3 22 15.279	+4.8352	− 1	+59 38 55.58	+12.740	+ 6
123	[ξ Tauri]	3.6	3 22 36.858	+3.2484	+ 39	+ 9 26 25.70	+12.664	− 45
124	[σ Persei]	4.8	3 24 38.703	+4.2178	+ 9	+47 42 22.43	+12.595	+ 23
125	*f* Tauri	4.1	3 26 13.970	+3.3088	+ 13	+12 38 58.27	+12.457	− 5
126	[κ Reticuli]	4.8	3 27 54.285	+1.0370	+514	−63 14 0.44	+12.709	+361
127	ε Eridani	3.5	3 28 58.327	+2.8255	−658	− 9 44 31.20	+12.286	+ 12
128	[Horol. 45 G.]	5.8	3 30 4.250	+1.7835	+ 48	−50 39 47.63	+12.279	+ 81
130	[*y* Eridani]	4.5	3 34 4.763	+2.1516	− 16	−40 32 58.76	+11.894	− 24
129	[Gr. 716]	5.4	3 34 51.132	+5.1797	− 21	+62 56 44.49	+11.886	+ 22
131	δ Persei	3.0	3 36 56.234	+4.2601	+ 33	+47 31 11.87	+11.681	− 35
133	[δ Fornacis]	4.9	3 38 54.401	+2.3850	− 5	−32 12 22.35	+11.583	+ 7
132	[ο Persei]	3.9	3 39 2.816	+3.7561	+ 8	+32 1 22.74	+11.549	− 17
135	[δ Eridani]	3.4	3 39 13.389	+2.8727	− 65	−10 2 49.31	+12.300	+747
134	ν Persei	3.9	3 39 28.892	+4.0670	− 6	+42 18 50.99	+11.530	− 5
136	[17 Tauri]	4.0	3 39 53.044	+3.5581	+ 17	+23 51 0.40	+11.462	− 44
137	[24 Eridani]	5.4	3 40 14.422	+3.0454	+ 1	− 1 25 38.51	+11.472	− 8
138	5 H. Camelop.	4.5	3 41 28.077	+6.2839	+ 42	+71 4 29.85	+11.352	− 40
139	η Tauri	3.0	3 42 29.281	+3.5619	+ 18	+23 50 46.46	+11.271	− 48
141	β Reticuli	3.8	3 43 8.492	+0.7428	+478	−65 4 16.23	+11.333	+ 62
140	τ^6 Eridani	4.1	3 43 13.982	+2.5798	−123	−23 29 49.76	+10.746	−519
142	[27 Tauri]	3.8	3 44 9.844	+3.5628	+ 14	+23 47 50.76	+11.153	− 45
143	*g* Eridani	4.1	3 46 18.627	+2.2447	− 40	−36 27 14.76	+10.990	− 52
146	γ Hydri	3.1	3 48 31.557	−0.9616	+123	−74 29 48.36	+10.989	+109
144	ζ Persei	2.9	3 48 50.878	+3.7657	+ 11	+31 38 6.38	+10.844	− 11
145	9 H. Camelop.	5.5	3 49 57.792	+5.0941	− 3	+60 51 50.37	+10.757	− 16
147	ε Persei	3.0	3 52 12.721	+4.0186	+ 23	+39 46 5.44	+10.578	− 29
148	ξ Persei	4.0	3 53 30.632	+3.8868	+ 10	+35 33 1.51	+10.502	− 8
149	γ Eridani	3.0	3 54 6.562	+2.7980	+ 42	−13 44 48.56	+10.354	−112
150	λ Tauri	(3.5)	3 56 1.443	+3.3210	− 5	+12 15 13.71	+10.309	− 13
151	ν Tauri	3.9	3 58 41.169	+3.1894	+ 4	+ 5 45 25.16	+10.112	− 10
153	[Erid. 174 G.]	5.7	4 2 9.660	+2.4719	+148	−27 52 51.65	+ 9.967	+108
152	*c* Persei	4.0	4 2 33.452	+4.3465	+ 33	+47 29 21.51	+ 9.796	− 32
154	o^1 Eridani	4.1	4 7 45.850	+2.9274	+ 8	− 7 3 21.18	+ 9.511	+ 82
155	α Horologii	3.7	4 11 12.979	+1.9855	+ 20	−42 30 3.77	+ 8.942	−219
156	α Reticuli	3.2	4 13 20.331	+0.7655	+ 50	−62 41 1.86	+ 9.043	+ 47
157	[γ Doradus]	4.2	4 13 49.383	+1.5678	+ 88	−51 41 53.45	+ 9.130	+172
160	υ^4 Eridani	3.3	4 14 42.847	+2.2683	+ 37	−34 0 10.37	+ 8.876	− 12
158	[54 Persei]	5.3	4 14 57.144	+3.8902	− 20	+34 21 53.77	+ 8.864	− 6
159	[γ Tauri]	3.7	4 15 0.650	+3.4115	+ 82	+15 25 32.24	+ 8.836	− 29

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161	[Erid. 212 G.]	5.4	4ʰ 16ᵐ 59ˢ.173	+2ˢ.6181	+ 36	−20° 50′ 20″.89	+ 8″.725	+ 15
162	δ Tauri	3.8	4 18 5.298	+3.4573	+ 78	+17 20 47.00	+ 8.592	− 31
163	[η Reticuli]	5.3	4 20 58.638	+0.6421	+126	−63 35 8.37	+ 8.554	+160
166	[δ Mensae]	5.8	4 23 37.359	−4.1392	+ 97	−80 24 41.99	+ 8.256	+ 72
164	ε Tauri	3.5	4 23 42.576	+3.5007	+ 80	+18 59 42.23	+ 8.141	− 35
165	[1 Camel. seq.]	6.3	4 25 22.242	+4.7415	+ 7	+53 43 46.16	+ 8.044	0
167	[δ Caeli]	5.2	4 28 15.657	+1.8356	− 6	−45 8 1.23	+ 7.795	− 17
168	α Tauri	1	4 31 5.920	+3.4402	+ 49	+16 20 28.80	+ 7.394	−189
169	ν Eridani	3.8	4 32 7.249	+2.9966	+ 2	− 3 31 24.33	+ 7.495	− 4
171	α Doradus	3.2	4 32 10.874	+1.2952	+ 71	−55 13 5.18	+ 7.498	+ 3
170	[υ² Eridani]	3.5	4 32 17.028	+2.3310	− 46	−30 44 1.00	+ 7.481	− 6
172	53 Eridani	3.9	4 34 19.944	+2.7462	− 54	−14 28 3.22	+ 7.155	−164
174	τ Tauri	4.2	4 37 12.084	+3.5986	+ 5	+22 47 48.24	+ 7.066	− 19
173	Gr. 848	6.2	4 37 30.333	+8.0226	+107	+75 47 25.62	+ 6.927	−134
175	4 Camelop.	5.5	4 40 59.983	+4.9869	+ 61	+56 36 33.56	+ 6.628	−146
176	[μ Eridani]	3.8	4 41 18.088	+2.9990	+ 13	− 3 24 28.19	+ 6.737	− 12
177	[μ Mensae]	5.5	4 43 53.859	−0.6125	+ 17	−71 5 6.65	+ 6.563	+ 28
178	9 Camelop.	4.3	4 45 41.344	+5.9457	+ 5	+66 12 5.97	+ 6.396	+ 10
179	[π⁴ Orionis]	3.7	4 46 43.854	+3.1939	0	+ 5 27 44.15	+ 6.293	− 7
180	π⁵ Orionis	3.7	4 49 52.476	+3.1238	− 2	+ 2 18 14.15	+ 6.035	− 3
181	ι Aurigae	2.7	4 51 31.260	+3.9042	+ 10	+33 2 2.98	+ 5.881	− 20
183	ε Aurigae	(3.2)	4 55 56.279	+4.3008	+ 6	+43 42 0.49	+ 5.517	− 14
182	10 Camelop.	4.1	4 55 56.376	+5.3264	− 1	+60 19 15.41	+ 5.519	− 12
184	ι Tauri	4.8	4 58 4.401	+3.5845	+ 53	+21 28 15.51	+ 5.308	− 43
185	η Aurigae	3.3	5 0 37.290	+4.2037	+ 33	+41 7 19.23	+ 5.064	− 71
186	ε Leporis	3.2	5 1 54.288	+2.5392	+ 20	−22 28 59.33	+ 4.959	− 68
187	[η² Pictoris]	5.1	5 2 47.265	+1.5497	+ 35	−49 41 27.82	+ 4.958	+ 6
188	β Eridani	2.7	5 3 43.173	+2.9489	− 59	− 5 11 39.19	+ 4.794	− 79
189	[ζ Doradus]	4.7	5 4 4.045	+1.0232	− 71	−57 35 13.89	+ 4.947	+103
190	[λ Eridani]	4.2	5 5 7.556	+2.8705	+ 3	− 8 51 39.62	+ 4.750	− 4
192	μ Aurigae	5.1	5 7 40.672	+4.1025	− 13	+38 23 9.96	+ 4.458	− 79
191	19 H. Camelop.	5.1	5 8 41.170	+9.8315	−314	+79 8 14.78	+ 4.611	+160
193	α Aurigae	1	5 10 28.866	+4.4288	+ 85	+45 54 49.68	+ 3.870	−428
194	β Orionis	1	5 10 30.008	+2.8824	+ 2	− 8 17 52.35	+ 4.296	0
195	[τ Orionis]	3.7	5 13 31.615	+2.9123	− 12	− 6 56 3.72	+ 4.030	− 7
196	ϑ Doradus	4.8	5 13 49.101	−0.0529	+ 14	−67 16 47.32	+ 4.051	+ 39
197	[ο Columbae]	4.9	5 14 27.240	+2.1624	+ 63	−34 58 35.88	+ 3.629	−328
198	[Columb. 12 G.]	6.0	5 16 2.795	+2.3918	+ 8	−27 27 16.45	+ 3.810	− 11
199	[ζ Pictoris]	5.6	5 17 18.394	+1.4693	+ 9	−50 41 44.96	+ 3.939	+227
200	[η Orion. m.]	3.3	5 20 15.192	+3.0162	+ 5	− 2 28 24.83	+ 3.460	+ 1

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201	γ Orionis	1.7	5^h 20^m 37^s.496	+3^s.2172	− 3	+ 6° 16′ 27″.89	+ 3″.407	− 20
202	β Tauri	1.8	5 20 58.842	+3.7914	+ 25	+28 32 15.26	+ 3.220	−177
203	17 Camelop.	5.9	5 22 13.910	+5.6594	− 3	+62 59 55.06	+ 3.287	− 1
204	[β Leporis]	2.9	5 24 38.771	+2.5708	+ 4	−20 49 32.71	+ 2.987	− 93
206	δ Orionis	2.2	5 27 42.859	+3.0643	0	− 0 21 37.69	+ 2.813	− 2
205	Gr. 966	6.6	5 28 29.022	+8.0088	− 8	+74 59 25.61	+ 2.768	+ 20
207	α Leporis	2.6	5 29 1.491	+2.6456	+ 2	−17 52 54.10	+ 2.703	+ 2
208	[φ¹ Orionis]	4.6	5 30 12.497	+3.2927	− 1	+ 9 26 0.77	+ 2.588	− 10
209	ι Orionis	2.8	5 31 19.421	+2.9346	+ 4	− 5 57 51.36	+ 2.497	− 4
210	ε Orionis	1.6	5 31 57.025	+3.0437	+ 1	− 1 15 17.06	+ 2.444	− 3
211	ζ Tauri	3.0	5 32 37.425	+3.5850	+ 6	+21 5 32.26	+ 2.363	− 26
212	β Doradus	3.7	5 32 53.658	+0.5173	− 13	−62 32 40.55	+ 2.363	− 2
213	[σ Orionis]	3.8	5 34 31.712	+3.0112	0	− 2 38 51.80	+ 2.222	− 1
214	[γ Mensae]	5.3	5 35 12.136	−2.3916	+278	−76 24 5.19	+ 2.463	+299
215	α Columbae	2.4	5 36 36.377	+2.1718	− 1	−34 7 6.06	+ 2.005	− 37
216	ο Aurigae	5.7	5 39 23.505	+4.6466	− 6	+49 47 26.91	+ 1.792	− 9
217	[γ Leporis]	3.8	5 40 57.701	+2.5016	−201	−22 28 30.45	+ 1.287	−376
218	[130 Tauri]	5.8	5 42 32.313	+3.4982	+ 4	+17 41 55.12	+ 1.520	− 6
219	ζ Leporis	3.5	5 43 8.930	+2.7180	− 12	−14 51 8.94	+ 1.471	− 2
220	κ Orionis	2.1	5 43 46.334	+2.8452	+ 4	− 9 41 55.20	+ 1.415	− 3
221	[ν Aurigae]	3.9	5 45 40.026	+4.1571	− 4	+39 7 30.29	+ 1.264	+ 11
222	[δ Leporis]	3.8	5 47 42.517	+2.5800	+165	−20 53 7.91	+ 0.422	−652
223	[β Columbae]	2.9	5 47 59.836	+2.1135	+ 33	−35 47 57.29	+ 1.453	+404
224	α Orionis	1	5 50 37.423	+3.2479	+ 20	+ 7 23 32.55	+ 0.833	+ 13
226	[η Leporis]	3.6	5 52 34.726	+2.7324	− 27	−14 10 56.11	+ 0.789	+140
225	δ Aurigae	3.8	5 52 36.624	+4.9401	+100	+54 16 46.80	+ 0.524	−122
227	β Aurigae	1.9	5 53 22.031	+4.4015	− 42	+44 56 24.41	+ 0.572	− 8
228	ϑ Aurigae	2.7	5 53 59.593	+4.0918	+ 49	+37 12 28.21	+ 0.438	− 87
229	η Columbae	3.9	5 56 34.525	+1.8367	+ 22	−42 49 9.98	+ 0.266	− 34
230	[66 Orionis]	5.9	6 0 32.038	+3.1694	− 6	+ 4 9 51.19	− 0.062	− 15
231	[Puppis 1 G.]	5.8	6 2 3.342	+1.7263	− 83	−45 2 8.82	+ 0.052	+232
232	ν Orionis	4.4	6 2 46.562	+3.4263	+ 11	+14 46 45.73	− 0.274	− 31
233	[36 Camelop.]	5.6	6 4 24.006	+6.0364	− 5	+65 44 12.46	− 0.414	− 29
235	[δ Pictoris]	5.0	6 8 39.686	+1.1668	− 22	−54 56 58.60	− 0.765	− 7
234	22 H. Camelop.	4.6	6 9 35.566	+6.6173	+ 16	+69 21 4.80	− 0.941	−102
236	η Geminor.	3.3	6 9 48.443	+3.6224	− 42	+22 31 55.96	− 0.871	− 13
237	[2 Lyncis]	4.4	6 12 12.783	+5.2966	− 7	+59 2 34.32	− 1.038	+ 29
239	[α Mensae]	5.1	6 12 44.387	−1.7893	+237	−74 43 29.21	− 1.339	−226
238	[κ Columbae]	4.4	6 13 33.798	+2.1340	− 6	−35 6 43.20	− 1.112	+ 74
240	ζ Canis maj.	2.9	6 17 5.273	+2.3026	+ 2	−30 1 31.24	− 1.489	+ 4

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			h m s	s		° ′ ″	″	
241	μ Geminor.	2.9	6 17 52.755	+ 3.6309	+ 48	+22 33 27.97	−1.673	− 111
242	ψ¹ Aurigae	5.1	6 18 25.824	+ 4.6239	+ 9	+49 19 55.57	−1.613	− 3
243	β Canis maj.	2.0	6 19 0.012	+ 2.6417	− 4	−17 54 48.38	−1.658	+ 2
244	8 Monocer.	4.5	6 19 19 030	+ 3.1799	− 7	+ 4 38 11.00	−1.684	+ 4
245	α Argus	1	6 22 5.163	+ 1.3314	+ 16	−52 38 57.80	−1.917	+ 11
246	10 Monocer.	5.0	6 23 48.698	+ 2.9629	− 2	− 4 42 33.85	−2.074	+ 5
247	8 Lyncis	6.3	6 30 1.018	+ 5.4902	−284	+61 33 23.41	−2.895	− 277
249	ξ² Canis maj.	4.6	6 31 32.128	+ 2.5141	+ 5	−22 53 51.14	−2.736	+ 13
248	23 H. Camelop.	5.6	6 31 55.218	+10.2971	−277	+79 39 29.42	−3.406	− 622
250	51 Aurigae	6.1	6 32 50.374	+ 4.1598	− 18	+39 27 57.67	−2.977	− 114
251	γ Geminor.	2.0	6 32 51.594	+ 3.4672	+ 34	+16 28 18.99	−2.910	− 45
252	ν Argus	3.1	6 35 11.438	+ 1.8355	− 4	−43 7 18.71	−3.086	− 20
253	*S* Monocer.	(4.4)	6 36 21.158	+ 3.3053	+ 6	+ 9 58 27.69	−3.172	− 5
254	ε Geminor.	3.1	6 38 45.917	+ 3.6933	+ 3	+25 12 55.22	−3.389	− 15
256	ξ Geminor.	3.4	6 40 34.531	+ 3.3686	− 75	+12 59 13.46	−3.730	− 199
255	[ψ⁵ Aurigae]	5.5	6 40 41.218	+ 4.3286	+ 6	+43 39 43.76	−3.386	+ 154
257	α Canis maj.[1])	1	6 41 26.892	+ 2.6438	−369	−16 36 0.56	−4.818	−1212
258	18 Monocer.	4.7	6 43 28.899	+ 3.1298	− 2	+ 2 30 17.63	−3.800	− 20
259	[43 Camelop.]	5.1	6 44 39.294	+ 6.4876	+ 16	+68 59 15.65	−3.878	+ 3
264	[ζ Mensae]	5.7	6 47 3.510	− 4.9432	− 37	−80 43 33.94	−4.003	+ 85
261	ϑ Geminor.	3.4	6 47 15.263	+ 3.9578	+ 7	+34 3 48.90	−4.159	− 55
262	α Pictoris	3.2	6 47 19.821	+ 0.6180	−101	−61 51 3.36	−3.855	+ 256
260	[24 H. Camel.]	4.6	6 47 50.059	+ 8.7965	+217	+77 5 12.38	−4.167	− 13
263	[τ Argus]	2.9	6 47 51.090	+ 1.4888	+ 29	−50 30 51.35	−4.251	− 96
265	15 Lyncis	4.6	6 50 0.443	+ 5.2045	0	+58 32 3.50	−4.469	− 130
266	ϑ Canis maj.	4.1	6 50 17.238	+ 2.7876	− 94	−11 55 57.50	−4.377	− 13
267	[ι Volantis]	5.4	6 52 24.897	− 0.6778	− 4	−70 51 32.14	−4.533	+ 12
268	ε Canis maj.	1.5	6 55 19.433	+ 2.3575	0	−28 51 25.54	−4.791	+ 1
269	ζ Geminor.	(3.8)	6 59 7.688	+ 3.5607	0	+20 41 40.30	−5.117	− 3
270	[o² Canis maj.]	3.1	6 59 31.009	+ 2.5052	− 2	−23 42 35.55	−5.147	0
271	γ Canis maj.	4.0	6 59 57.514	+ 2.7152	+ 8	−15 30 30.39	−5.197	− 12
272	[Carinae 27 G.]	5.5	7 2 44.314	+ 1.1173	− 24	−56 37 18.63	−5.426	− 7
273	δ Canis maj.	1.9	7 4 58.516	+ 2.4389	− 8	−26 15 32.99	−5.604	+ 3
274	63 Aurigae	5.0	7 5 52.818	+ 4.1320	+ 45	+39 27 31.37	−5.683	+ 1
275	[*J* Puppis]	4.5	7 10 9.875	+ 1.7095	−148	−46 37 6.81	−5.951	+ 90
276	[64 Aurigae]	6.0	7 12 11.965	+ 4.1782	− 3	+41 2 0.83	−6.208	+ 3
277	λ Geminor.	3.6	7 13 16.005	+ 3.4500	− 31	+16 41 34.13	−6.343	− 44
278	π Argus	2.5	7 14 10.521	+ 2.1184	− 14	−36 56 45.85	−6.372	+ 3
279	δ Geminor.	3.3	7 15 6.484	+ 3.5863	− 11	+22 8 16.93	−6.463	− 10
280	19 Lync. seq.	5.5	7 16 1.140	+ 4.9070	− 1	+55 26 27.48	−6.562	− 34

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
281	δ Volantis	4.0	7h 16m 52s.652	—0s.0196	+ 4	—67° 48′ 12″.69	— 6″.611	— 12
282	ι Geminor.	3.8	7 20 30.713	+3.7305	— 83	+27 57 57.81	— 6.984	— 85
283	[η Can. maj.]	2.4	7 20 46.337	+2.3730	— 5	—29 8 18.54	— 6.906	+ 13
284	Gr. 1308	5.8	7 22 9.096	+6.2716	— 7	+68 38 19.96	— 7.077	— 44
285	β Canis min.	2.9	7 22 35.786	+3.2555	— 31	+ 8 27 34.10	— 7.110	— 41
286	ρ Geminor.	4.4	7 23 42.655	+3.8633	+122	+31 57 9.56	— 6.977	+ 183
287	α Gemin.[2]	1.8,2.8	7 29 14.448	+3.8345	—129	+32 4 26.75	— 7.691	— 81
288	[Pupp. 108 G.]	4.7	7 30 27.415	+2.5674	— 39	—22 6 51.02	— 7.690	+ 18
289	25 Monocer.	5.3	7 33 6.137	+2.9837	— 47	— 3 55 21.47	— 7.901	+ 20
290	[f Puppis]	4.7	7 34 15.578	+2.2193	— 27	—34 46 44.23	— 7.998	+ 16
291	α Can. min.[3]	0.5	7 34 54.338	+3.1423	—469	+ 5 26 28.21	— 9.094	—1028
292	24 Lyncis	5.0	7 35 54.451	+5.0928	— 47	+58 54 29.55	— 8.199	— 53
293	[26 Monocer.]	4.0	7 37 14.027	+2.8663	— 57	— 9 21 15.95	— 8.273	— 21
294	κ Geminor.	3.4	7 39 22.732	+3.6263	— 15	+24 36 1.44	— 8.477	— 54
295	β Geminor.	1.1	7 40 10.695	+3.6758	—468	+28 13 48.19	— 8.539	— 53
296	π Geminor.	5.5	7 42 5.627	+3.8745	— 1	+33 37 22.27	— 8.668	— 31
297	ζ Volantis	3.9	7 42 51.550	—0.7231	+ 8	—72 24 16.25	— 8.690	+ 8
298	[Pupp. 205 G.]	5.7	7 47 52.943	+2.7788	— 41	—13 40 27.98	— 9.434	— 343
299	[26 Lyncis]	5.7	7 48 36.059	+4.3793	— 40	+47 47 0.41	— 9.154	— 7
301	[α Puppis]	3.7	7 49 19.735	+2.0619	— 18	—40 21 30.84	— 9.203	+ 1
300	Gr. 1374	5.5	7 50 9.957	+7.2416	— 30	+74 8 38.89	— 9.300	— 32
302	[53 Camelop.]	6.3	7 54 32.624	+5.1474	— 30	+60 33 19.21	— 9.628	— 21
303	χ Argus	3.5	7 54 38.628	+1.5270	— 32	—52 45 23.35	— 9.591	+ 24
304	[27 Monocer.]	5.2	7 55 32.444	+2.9994	— 27	— 3 26 59.01	— 9.674	+ 9
305	χ Geminor.	5.1	7 58 21.724	+3.6899	— 15	+28 1 50.79	— 9.944	— 46
306	ζ Argus	2.2	8 0 37.857	+2.1077	— 34	—39 45 57.46	—10.060	+ 10
307	27 Lyncis	4.6	8 2 8.740	+4.5268	— 59	+51 44 59.72	—10.189	— 4
308	ι Navis	2.8	8 3 57.977	+2.5547	— 64	—24 3 41.46	—10.275	+ 47
309	γ Argus	2.1	8 6 56.596	+1.8488	— 12	—47 5 18.85	—10.548	— 4
310	Br. 1147	5.8	8 9 1.357	+7.6163	+ 58	+76 0 54.58	—10.681	+ 17
311	20 Navis	5.3	8 9 28.332	+2.7581	— 8	—15 32 4.11	—10.737	— 6
312	β Cancri	3.5	8 11 57.679	+3.2561	— 30	+ 9 26 42.76	—10.967	— 52
313	[q Puppis]	4.4	8 15 24.578	+2.2441	—104	—36 23 54.36	—11.078	+ 89
314	31 Lyncis	4.4	8 17 5.423	+4.1183	— 8	+43 27 30.62	—11.396	— 108
315	ε Argus	1.7	8 20 47.515	+1.2348	— 32	—59 14 19.57	—11.539	+ 15
316	Br. 1197	3.6	8 21 27.848	+2.9994	— 41	— 3 37 53.95	—11.623	— 21
318	ϑ Chamael.	4.2	8 23 10.834	—1.7494	—457	—77 12 50.00	—11.695	+ 30
317	o Ursae maj.	3.3	8 23 17.835	+5.0100	—174	+61 0 0.53	—11.844	— 111
319	[β Volantis]	3.7	8 24 49.624	+0.6616	— 54	—65 51 23.10	—12.018	— 177
320	Gr. 1450	6.3	8 27 27.623	+3.9089	— 83	+38 18 19.42	—12.196	— 170

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321	η Cancri	5.6	8h 27m 51s.232	+3s.4741	— 26	+20° 43′ 38″.36	—12″.104	— 50
322	[Gr. 1446]	6.4	8 30 23.909	+6.7433	— 36	+73 55 29.36	—12.334	—104
323	[Gr. 1460]	6.3	8 33 4.645	+4.4616	— 38	+53 0 24.88	—12.450	— 35
324	[e Velorum]	4.2	8 34 41.354	+2.1078	— 22	—42 41 41.22	—12.533	— 7
325	[6 Hydrae]	5.4	8 36 2.676	+2.8421	— 64	—12 10 40.00	—12.621	— 3
326	δ Cancri	3.9	8 39 54.836	+3.4137	— 9	+18 27 49.60	—13.115	—236
327	α Pyxidis	3.7	8 40 12.976	+2.4099	— 15	—32 52 58.77	—12.888	+ 12
328	ι Cancri	4.1	8 41 37.065	+3.6371	— 12	+29 4 4.65	—13.040	— 47
329	[ε Hydrae]	3.3	8 42 19.754	+3.1798	— 126	+ 6 43 39.80	—13.091	— 50
330	δ Argus	2.0	8 42 23.058	+1.6574	+ 22	—54 24 1.59	—13.137	— 93
331	[η Chamael.]	5.9	8 44 12.372	—1.9671	— 151	—78 39 31.55	—13.131	+ 34
332	[γ Pyxidis]	4.2	8 46 57.998	+2.5459	— 100	—27 23 51.62	—13.252	+ 93
333	[σ² Cancri med.]	5.6	8 49 7.403	+3.6674	+ 31	+30 53 53.77	—13.512	— 26
334	ζ Hydrae	3.1	8 50 57.297	+3.1740	— 64	+ 6 15 57.34	—13.592	+ 12
336	*c* Carinae	4.0	8 53 8.711	+1.3629	— 26	—60 19 23.51	—13.692	+ 52
335	ι Ursae maj.	2.9	8 53 27.828	+4.1221	— 437	+48 22 20.15	—14.012	—247
337	α Cancri	4.1	8 53 53.709	+3.2846	+ 26	+12 11 0.94	—13.827	— 35
338	[ρ Ursae maj.]	4.9	8 54 59.405	+5.4536	— 34	+67 57 29.07	—13.847	+ 15
339	10 Ursae maj.	3.9	8 55 11.598	+3.9064	— 383	+42 6 57.99	—14.138	—264
340	[Gr. 1501]	5.9	8 57 51.679	+4.4146	— 8	+54 36 57.09	—14.039	+ 3
341	κ Ursae maj.	3.3	8 57 53.865	+4.1102	— 27	+47 29 22.36	—14.109	— 65
343	α Volantis	4.1	9 1 7.426	+0.9539	— 8	—66 3 38.33	—14.357	—114
342	[*c* Velorum]	3.9	9 1 15.325	+2.0662	— 70	—46 45 46.62	—14.280	— 28
344	σ² Ursae maj.	4.9	9 3 1.241	+5.3195	— 16	+67 28 36.01	—14.428	— 67
345	λ Argus	2.1	9 4 54.274	+2.2044	— 33	—43 5 34.60	—14.465	+ 9
346	[36 Lyncis]	5.3	9 8 18.971	+3.9364	— 18	+43 33 53.17	—14.722	— 42
347	ϑ Hydrae	3.9	9 9 59.719	+3.1236	+ 89	+ 2 40 9.38	—15.092	—313
348	β Argus	1.7	9 12 17.014	+0.6703	— 303	—69 22 15.79	—14.816	+ 97
349	[38 Lyncis]	3.9	9 13 37.345	+3.7432	— 18	+37 9 31.59	—15.121	—129
350	83 Cancri	6.7	9 14 17.747	+3.3530	— 80	+18 3 43.57	—15.166	—135
351	[ι Argus]	2.2	9 14 50.463	+1.6060	— 35	—58 55 20.79	—15.060	+ 2
352	40 Lyncis	3.2	9 15 56.538	+3.6632	— 178	+34 44 54.37	—15.114	+ 12
353	κ Argus	2.5	9 19 30.668	+1.8564	— 22	—54 39 5.52	—15.327	+ 2
354	α Hydrae	2.0	9 23 27.609	+2.9490	— 7	— 8 17 38.15	—15.517	+ 32
355	*h* Ursae maj.	3.5	9 24 55.332	+4.7627	+ 168	+63 25 48.05	—15.601	+ 28
356	[ε Antliae]	4.7	9 25 46.622	+2.4742	— 25	—35 35 0.72	—15.690	— 14
357	*d* Ursae maj.	4.5	9 27 4.746	+5.3577	— 120	+70 12 1.90	—15.671	+ 75
358	ϑ Ursae maj.	3.1	9 27 14.875	+4.0297	—1028	+52 3 39.13	—16.302	—547
359	ψ Argus	3.6	9 27 23.403	+2.3603	— 172	—40 5 54.41	—15.689	+ 74
361	[*N* Velorum]	3.0	9 28 40.173	+1.8229	— 36	—56 39 48.07	—15.831	+ 1

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			h m s	s		° ′ ″	″	
360	10 Leon. min.	4.6	9 29 4.961	+3.6850	+ 13	+36 46 16.26	−15.880	− 26
362	[*H* Carinae]	5.8	9 30 59.020	+0.4679	− 61	−72 42 29.75	−15.972	− 17
363	[Gr. 1564]	5.9	9 35 4.765	+5.1857	−131	+69 37 14.46	−16.244	− 74
364	[κ Hydrae]	5.1	9 36 16.757	+2.8760	− 18	−13 57 2.14	−16.242	− 11
365	[ο Leonis]	3.8	9 36 40.166	+3.2051	− 94	+10 16 30.17	−16.289	− 37
366	ϑ Antliae	5.0	9 40 27.381	+2.6727	− 40	−27 23 3.91	−16.408	+ 35
367	ε Leonis	3.0	9 41 5.191	+3.4111	− 31	+24 9 41.71	−16.492	− 17
369	υ Argus	3.0	9 45 0.171	+1.5012	− 21	−64 40 55.36	−16.669	− 1
368	υ Ursae maj.	3.8	9 45 1.745	+4.2916	−379	+59 26 4.39	−16.823	−154
370	6 Sextantis	6.2	9 47 0.099	+3.0241	+ 8	− 3 50 57.16	−16.794	− 30
371	[μ Leonis]	4.0	9 47 59.382	+3.4178	−162	+26 24 11.35	−16.868	− 56
372	Gr. 1586	6.3	9 50 54.186	+5.4302	−180	+73 16 46.99	−16.993	− 45
373	[Hydrae 183 G.]	5.5	9 50 54.495	+2.8299	− 24	−18 36 40.17	−17.015	− 66
374	[19 Leon. min.]	5.2	9 52 32.750	+3.6858	−100	+41 27 22.33	−17.052	− 27
375	[φ Argus]	3.7	9 53 54.702	+2.1029	− 21	−54 10 3.32	−17.090	− 2
377	[η Antliae]	5.3	9 55 15.919	+2.5710	− 83	−35 29 18.63	−17.173	− 24
376	[12 Sextantis]	6.7	9 55 21.716	+3.1137	− 47	+ 3 47 12.74	−17.126	+ 27
378	π Leonis	4.9	9 55 46.568	+3.1729	− 21	+ 8 26 51.81	−17.197	− 25
379	η Leonis	3.4	10 2 45.321	+3.2746	− 2	+17 10 21.86	−17.485	− 6
380	α Leonis	1.3	10 3 54.025	+3.1983	−167	+12 22 41.41	−17.529	− 1
381	λ Hydrae	3.7	10 6 29.586	+2.9250	−134	−11 56 18.39	−17.724	− 87
382	*q* Velorum	3.9	10 11 12.396	+2.5129	−154	−41 42 19.28	−17.784	+ 45
385	[ω Argus]	3.4	10 11 44.667	+1.4331	− 28	−69 37 13.99	−17.851	0
384	ζ Leonis	3.4	10 12 1.295	+3.3422	+ 15	+23 50 11.01	−17.869	− 7
383	λ Ursae maj.	3.4	10 12 2.225	+3.6301	−148	+43 20 3.38	−17.911	− 49
386	μ Ursae maj.	3.0	10 17 19.852	+3.5854	− 70	+41 55 20.52	−18.044	+ 24
387	30 H. Urs. maj.	5.0	10 18 5.432	+4.3607	− 25	+65 59 30.33	−18.115	− 18
388	[25 Sextantis]	6.2	10 19 11.751	+3.0324	− 40	− 3 38 57.08	−18.140	− 2
389	μ Hydrae	3.9	10 22 1.649	+2.9010	− 85	−16 24 25.70	−18.323	− 82
391	*J* Carinae	4.1	10 22 43.798	+1.1957	− 67	−73 36 13.65	−18.284	− 17
390	31 Leon. min.	4.2	10 23 1.875	+3.4786	− 96	+37 8 17.08	−18.384	−106
392	Lac. α Antliae	4.2	10 23 18.378	+2.7423	− 62	−30 38 23.10	−18.278	+ 10
393	*s* Carinae	4.1	10 24 47.522	+2.1958	− 32	−58 18 36.84	−18.355	− 14
394	36 Ursae maj.	4.8	10 25 15.665	+3.8593	−216	+56 24 42.32	−18.390	− 33
395	9 H. Dracon.	4.9	10 27 59.468	+5.1805	− 96	+76 8 46.65	−18.455	− 4
396	[ρ Leonis]	3.8	10 28 23.380	+3.1613	− 6	+ 9 44 21.21	−18.470	− 5
397	[*p* Carinae]	3.5	10 29 2.124	+2.1291	− 18	−61 15 10.52	−18.482	+ 5
398	[37 Ursae maj.]	5.2	10 29 45.693	+3.8861	+ 83	+57 30 56.54	−18.476	+ 36
399	[44 Hydrae]	5.6	10 30 1.108	+2.8521	− 2	−23 18 43.15	−18.500	+ 21
400	[*p* Velorum]	4.0	10 33 45.999	+2.5130	−183	−47 47 20.82	−18.677	− 34

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401	[γ Chamael.]	4.2	10ʰ 34ᵐ 29ˢ.206	+0ˢ.7349	—116	—78° 10′ 18″.79	—18″.636	+ 30
402	[x Velorum]	4.4	10 35 57.426	+2.3766	— 75	—55 9 56.35	—18.734	— 21
403	[35 H. Urs.maj.]	5.1	10 37 4.325	+4.3371	— 19	+69 30 57.45	—18.766	— 18
404	33 Sextantis	6.6	10 37 7.823	+3.0525	— 94	— 1 17 58.97	—18.875	—125
405	[41 Leon. min.]	5.2	10 38 51.115	+3.2673	— 81	+23 37 42.82	—18.789	+ 13
406	ϑ Argus	2.8	10 39 57.427	+2.1343	— 26	—63 57 14.69	—18.831	+ 4
407	42 Leon. min.	5.3	10 41 11.897	+3.3432	— 15	+31 7 30.34	—18.910	— 37
408	μ Argus	2.7	10 43 9.126	+2.5721	+ 49	—48 58 34.20	—18.994	— 65
409	*l* Leonis	5.4	10 44 50.609	+3.1559	— 3	+10 59 23.84	—19.008	— 30
411	[δ² Chamael.]	4.7	10 45 0.709	+0.6005	—119	—80 5 49.22	—18.973	+ 9
410	[ν Hydrae]	3.2	10 45 28.764	+2.9588	+ 66	—15 45 13.81	—18.801	+195
412	[46 Leon. min.]	3.9	10 48 37.119	+3.3634	+ 76	+34 40 4.92	—19.363	—282
414	[ι Antliae]	4.9	10 52 48.030	+2.7911	+ 62	—36 41 9.56	—19.327	—137
413	[Br. 1508]	6.4	10 53 16.352	+4.8863	—259	+78 13 14.06	—19.228	— 26
415	*i* Velorum	4.5	10 56 17.836	+2.7470	+ 20	—41 46 30.53	—19.280	— 4
416	β Ursae maj.	2.3	10 56 46.926	+3.6396	+101	+56 49 58.52	—19.261	+ 26
417	α Ursae maj.	1.8	10 58 33.338	+3.7268	—175	+62 12 16.99	—19.401	— 72
418	χ Leonis	4.8	11 0 41.113	+3.0964	—231	+ 7 47 25.37	—19.424	— 46
419	[χ Hydrae]	4.8	11 1 16.924	+2.8859	—154	—26 50 24.08	—19.398	— 7
420	ψ Ursae maj.	3.0	11 4 56.817	+3.3843	— 57	+44 57 16.06	—19.506	— 36
421	β Crateris	4.3	11 7 31.487	+2.9478	0	—22 22 1.15	—19.620	— 98
422	δ Leonis	2.4	11 9 38.607	+3.1950	+106	+20 59 2.82	—19.700	—136
423	ϑ Leonis	3.3	11 9 50.033	+3.1510	— 43	+15 53 20.03	—19.649	— 81
424	[Gr. 1757]	6.1	11 11 58.202	+3.3935	— 97	+49 56 5.38	—19.630	— 22
425	ν Ursae maj.	3.4	11 13 56.745	+3.2479	— 16	+33 33 10.07	—19.620	+ 22
426	δ Crateris	3.6	11 15 8.380	+2.9974	— 88	—14 19 25.73	—19.463	+200
427	σ Leonis	4.1	11 16 48.353	+3.0949	— 62	+ 6 29 23.54	—19.703	— 12
428	π Centauri	4.1	11 17 10.273	+2.7264	— 41	—54 1 49.95	—19.710	— 13
429	Gr. 1771	6.2	11 17 52.554	+3.5904	— 10	+64 47 25.45	—19.673	+ 34
430	[ι Leonis]	4.0	11 19 32.782	+3.1288	+106	+10 59 31.30	—19.818	— 84
431	[γ Crateris]	4.0	11 20 41.026	+2.9948	— 72	—17 13 20.78	—19.745	+ 7
432	[58 Ursae maj.]	6.1	11 25 58.719	+3.2567	— 44	+43 38 3.94	—19.753	+ 72
433	λ Draconis	3.6	11 26 25.979	+3.5946	— 80	+69 47 41.29	—19.852	— 21
434	ξ Hydrae	3.6	11 28 52.029	+2.9455	—167	—31 23 33.83	—19.904	— 43
435	[*C* Centauri]	5.5	11 31 50.952	+2.8972	+ 13	—47 10 32.48	—19.941	— 47
436	λ Centauri	3.3	11 31 53.985	+2.7521	— 58	—62 33 17.83	—19.912	— 17
437	υ Leonis	4.4	11 32 38.869	+3.0717	+ 1	— 0 21 35.73	—19.867	+ 36
438	[π Chamael.]	6.1	11 33 47.391	+2.4580	—278	—75 25 53.08	—19.919	— 5
439	[ο Hydrae]	4.8	11 36 2.274	+2.9746	— 30	—34 16 44.47	—19.935	+ 1
440	3 Draconis	5.4	11 37 47.976	+3.3725	— 78	+67 12 35.80	—19.912	+ 40

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			h m s	s		° ′ ″	″	
441	χ Ursae maj.	3.8	11 41 37.230	+3.1792	−133	+48 14 42.66	−19.962	+ 20
442	[λ Muscae]	3.7	11 41 38.067	+2.8142	−152	−66 15 46.96	−19.961	+ 20
443	[Centauri65G.]	4.2	11 42 26.627	+2.8878	− 25	−60 42 41.01	−20.022	− 35
444	β Leonis	2.1	11 44 46.582	+3.0624	−341	+15 2 30.02	−20.119	−118
445	β Virginis	3.5	11 46 19.185	+3.1252	+494	+ 2 14 17.17	−20.286	−276
446	[*B* Centauri]	4.8	11 46 56.329	+2.9862	−111	−44 42 22.43	−20.059	− 46
447	γ Ursae maj.	2.3	11 49 25.134	+3.1688	+108	+54 9 42.36	−20.022	+ 2
448	[ε Chamael.]	5.0	11 55 26.134	+2.9339	−161	−77 45 14.59	−20.050	− 9
449	[Centauri88G.]	5.5	11 59 18.167	+3.0956	+267	−41 57 49.38	−20.168	−122
450	ο Virginis	4.1	12 0 55.849	+3.0570	−147	+ 9 11 57.99	−20.007	+ 38
451	[Gr. 1852]	6.0	12 0 59.944	+3.0905	+439	+77 22 31.64	−20.142	− 96
452	δ Centauri	2.7	12 3 59.920	+3.0963	− 44	−50 15 16.50	−20.061	− 18
453	ε Corvi	3.0	12 5 48.113	+3.0813	− 51	−22 9 9.39	−20.028	+ 11
454	4 H. Draconis	5.0	12 8 16.762	+2.8462	+ 23	+78 4 58.73	−20.010	+ 23
455	[δ Crucis]	3.0	12 10 40.599	+3.1682	− 50	−58 16 54.42	−20.051	− 27
456	δ Ursae maj.	3.4	12 11 16.528	+2.9830	+136	+57 29 57.25	−20.019	+ 3
457	[γ Corvi]	2.4	12 11 29.035	+3.0820	−112	−17 4 32.17	−20.004	+ 17
458	[2 Can. ven.]	5.9	12 11 55.254	+3.0145	+ 26	+41 7 39.46	−20.064	− 45
459	β Chamael.	4.4	12 13 23.555	+3.4542	−142	−78 50 45.11	−19.999	+ 12
460	η Virginis	3.7	12 15 36.468	+3.0688	− 42	− 0 12 0.28	−20.022	− 23
461	[6 Can. ven.]	5.3	12 21 42.841	+2.9618	− 67	+39 29 4.38	−19.992	− 36
462	α Crucis md.	1.0	12 21 55.245	+3.3149	− 44	−62 38 2.53	−19.985	− 31
463	[Hydr. 323 G.]	5.7	12 22 25.815	+3.1540	− 14	−32 21 52.67	−19.999	− 49
464	[σ Centauri]	4.1	12 23 29.437	+3.2307	− 36	−49 45 56.00	−19.973	− 33
466	20 Comae	6.0	12 25 30.157	+3.0171	+ 26	+21 21 39.97	−19.960	− 39
465	δ Corvi	2.8	12 25 30.944	+3.1009	−145	−16 2 52.44	−20.064	−142
467	[74 Ursae maj.]	5.6	12 26 2.236	+2.8122	− 96	+58 52 4.02	−19.828	+ 88
468	[γ Crucis]	1.6	12 26 29.856	+3.3094	+ 26	−56 38 34.88	−20.189	−278
469	[γ Muscae]	3.9	12 27 26.084	+3.5461	− 81	−71 40 9.05	−19.924	− 22
470	8 Can. ven.	4.3	12 29 45.428	+2.8553	−625	+41 48 49.38	−19.597	+280
472	κ Draconis	3.6	12 29 54.299	+2.5766	−117	+70 15 4.00	−19.868	+ 7
471	β Corvi	2.6	12 29 58.270	+3.1459	− 4	−22 55 56.54	−19.933	− 59
473	24 Comae seq.	5.1	12 30 55.056	+3.0115	+ 2	+18 50 21.61	−19.845	+ 18
474	α Muscae	2.8	12 32 9.680	+3.5459	− 55	−68 40 22.59	−19.880	− 32
475	[γ Virginis]	4.9	12 34 54.567	+3.0945	− 49	− 7 32 0.64	−19.851	− 37
476	γ Centauri	2.3	12 36 52.593	+3.2941	−205	−48 29 55.09	−19.806	− 19
477	[γ Virgin. m.]	3.5,3.5	12 37 24.179	+3.0388	−375	− 0 59 20.11	−19.774	+ 5
478	76 Ursae maj.	6.2	12 37 54.064	+2.6331	− 45	+63 10 26.71	−19.789	− 17
479	[Hydr. 330 G.]	5.9	12 39 31.667	+3.1913	− 26	−27 51 47.55	−19.798	− 50
480	[β Muscae]	3.2	12 41 6.924	+3.6473	− 53	−67 38 54.57	−19.755	− 31

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
			h m s	s		° ′ ″	″	
481	β Crucis	1.4	12 42 48.170	+3.4834	− 59	−59 13 47.10	−19.724	− 27
482	n Centauri	4.4	12 48 46.685	+3.3117	+ 45	−39 43 20.50	−19.631	− 37
483	ε Ursae maj.	1.7	12 50 20.284	+2.6478	+137	+56 24 55.99	−19.575	− 11
484	δ Virginis	3.4	12 51 22.293	+3.0211	−315	+ 3 51 13.09	−19.607	− 63
485	12 Can. ven. sq.	2.8	12 52 6.058	+2.8108	−199	+38 46 18.40	−19.479	+ 50
486	8 Draconis	5.2	12 52 8.157	+2.3975	− 15	+65 53 38.30	−19.563	− 34
487	[δ Muscae]	3.6	12 56 28.294	+4.0772	+528	−71 5 45.97	−19.477	− 36
488	ε Virginis	2.8	12 57 59.729	+2.9866	−185	+11 24 37.36	−19.389	+ 18
489	[ξ^2 Centauri]	4.3	13 1 59.923	+3.4866	− 35	−49 27 24.14	−19.346	− 30
490	ϑ Virginis	4.3	13 5 35.944	+3.1038	− 24	− 5 5 27.13	−19.269	− 39
491	[17 Can. ven.]	6.1	13 6 11.924	+2.7591	− 59	+38 56 41.98	−19.183	+ 32
492	43 Comae	4.2	13 7 57.293	+2.8021	−602	+28 18 13.15	−18.292	+879
493	[η Muscae]	5.0	13 9 32.495	+4.0310	− 33	−67 26 59.38	−19.159	− 30
494	[20 Can. ven.]	4.6	13 13 46.702	+2.6942	−107	+41 0 52.00	−19.008	+ 8
495	γ Hydrae	3.1	13 14 21.104	+3.2562	+ 51	−22 43 43.55	−19.053	− 53
496	ι Centauri	2.9	13 15 52.140	+3.3620	−293	−36 16 10.50	−19.049	− 92
497	ζ Urs. maj. pr.	2.2	13 20 32.772	+2.4210	+144	+55 21 49.48	−18.846	− 25
498	α Virginis	1.1	13 20 45.925	+3.1572	− 28	−10 43 23.66	−18.847	− 33
499	Gr. 2001	6.2	13 23 59.443	+1.5265	+ 35	+72 49 38.84	−18.729	− 15
500	69 H. Urs. maj.	5.5	13 25 22.253	+2.2062	−110	+60 22 45.74	−18.634	+ 37
501	ζ Virginis	3.3	13 30 24.698	+3.0551	−190	− 0 10 0.72	−18.471	+ 35
502	17 H. Can. ven.	4.9	13 31 2.849	+2.6807	+ 64	+37 36 44.58	−18.498	− 14
503	[Chamael. 49 G.]	6.4	13 31 58.771	+5.0515	− 49	−75 15 21.09	−18.467	− 14
504	ε Centauri	2.4	13 34 33.344	+3.7810	− 37	−53 2 23.34	−18.397	− 34
505	[Gr. 2029]	5.9	13 35 9.806	+1.4369	− 86	+71 40 10.28	−18.342	0
506	[i Centauri]	4.3	13 40 54.546	+3.4001	−371	−32 37 9.80	−18.290	−156
507	τ Bootis	4.5	13 43 16.224	+2.8509	−340	+17 52 29.80	−18.016	+ 29
509	η Ursae maj.	1.8	13 44 13.965	+2.3677	−119	+49 43 55.63	−18.028	− 20
508	[μ Centauri]	3.3	13 44 32.965	+3.6009	− 28	−42 3 20.10	−18.015	− 19
510	89 Virginis	5.2	13 45 18.268	+3.2550	− 69	−17 42 58.15	−18.005	− 38
511	[i Draconis]	4.8	13 48 58.735	+1.7524	0	+65 8 16.75	−17.824	− 2
512	ζ Centauri	2.6	13 50 17.468	+3.7260	− 70	−46 52 31.45	−17.829	− 60
513	η Bootis	2.8	13 50 41.108	+2.8570	− 42	+18 49 5.99	−18.117	−364
514	[Cent. 294 G.]	4.9	13 51 33.371	+4.3097	− 46	−63 16 31.41	−17.752	− 35
515	[47 Hydrae]	5.5	13 53 48.120	+3.3602	− 34	−24 33 45.88	−17.665	− 40
517	11 Bootis	6.3	13 57 21.996	+2.7218	− 57	+27 47 30.58	−17.466	+ 8
516	τ Virginis	4.2	13 57 22.221	+3.0516	+ 13	+ 1 57 1.75	−17.504	− 30
518	β Centauri	1	13 57 53.014	+4.2071	− 28	−59 58 6.38	−17.492	− 40
519	[π Hydrae]	3.4	14 1 35.011	+3.4095	+ 30	−26 16 41.83	−17.443	−153
520	ϑ Centauri	2.1	14 1 43.977	+3.5198	−439	−35 57 26.25	−17.814	−530

Nr.	Name	Gr.	AR. 1916.0 (h m s)	Jährl. Veränderung (s)	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0 (° ′ ″)	Jährl. Veränderung (″)	Jährl. Eigenbew. in 0″.001
521	α Draconis	3.4	14 2 6.851	+1.6232	— 83	+64 46 37.42	—17.250	+ 17
522	d Bootis	4.9	14 6 34.118	+2.7372	— 12	+25 29 20.70	—17.135	— 69
523	κ Virginis	4.2	14 8 24.745	+3.1968	+ 4	— 9 52 59.77	—16.846	+ 134
524	4 Ursae min.	5.0	14 9 9.272	—0.2806	— 113	+77 56 32.08	—16.914	+ 32
525	ι Virginis	4.0	14 11 36.438	+3.1425	— 14	— 5 36 0.93	—17.261	— 431
526	α Bootis	1	14 11 49.771	+2.7358	— 777	+19 37 9.25	—18.819	—2000
527	λ Bootis	4.0	14 13 11.489	+2.2825	— 177	+46 28 24.80	—16.602	+ 152
528	[ι Bootis]	4.6	14 13 11.504	+2.1260	— 159	+51 45 15.41	—16.669	+ 86
529	[υ Centauri]	4.4	14 14 26.753	+4.1647	— 47	—56 0 1.19	—16.734	— 39
530	[Circini 10 G.]	5.9	14 18 7.142	+4.9261	— 41	—67 48 51.16	—16.550	— 36
531	ϑ Bootis	3.9	14 22 20.261	+2.0430	— 257	+52 14 18.88	—16.706	— 404
532	[52 Hydrae]	5.1	14 23 14.923	+3.5053	— 28	—29 6 53.19	—16.286	— 30
533	[φ Virginis]	5.0	14 23 52.363	+3.0890	— 90	— 1 51 7.24	—16.231	— 7
534	ρ Bootis	3.7	14 28 12.610	+2.5862	— 75	+30 44 22.54	—15.885	+ 113
535	γ Bootis	2.9	14 28 41.769	+2.4170	— 93	+38 40 30.59	—15.828	+ 145
536	[Gr. 2125]	6.4	14 29 25.959	+1.6279	— 59	+60 35 43.57	—15.915	+ 19
537	η Centauri	2.5	14 30 9.994	+3.7968	— 36	—41 47 22.32	—15.931	— 36
538	α Centauri[4])	1	14 33 52.987	+4.0542	—4872	—60 29 21.90	—14.983	+ 714
539	[α Circini]	3.3	14 35 42.052	+4.8098	— 320	—64 36 36.51	—15.833	— 238
540	[33 Bootis]	5.5	14 35 42.676	+2.2330	— 68	+44 45 59.82	—15.620	— 26
541	[α Lupi]	2.4	14 36 20.126	+3.9750	— 20	—47 1 42.39	—15.596	— 36
543	ζ Bootis m.	3.6	14 37 8.214	+2.8640	+ 37	+14 5 16.73	—15.542	— 27
542	α Apodis	3.8	14 37 21.781	+7.3027	— 57	—78 41 22.49	—15.537	— 35
544	[c¹ Centauri]	4.1	14 38 30.838	+3.6592	— 61	—34 48 45.86	—15.637	— 198
545	μ Virginis	3.9	14 38 37.873	+3.1585	+ 69	— 5 17 37.33	—15.759	— 327
546	[b Lupi]	5.9	14 41 8.222	+4.1773	— 24	—52 1 43.65	—15.384	— 92
547	109 Virginis	3.7	14 42 0.045	+3.0311	— 75	+ 2 14 46.08	—15.282	— 39
548	α Librae	2.7	14 46 13.696	+3.3140	— 77	—15 41 36.34	—15.073	— 74
549	Gr. 2164	5.8	14 49 18.356	+1.5198	— 170	+59 38 5.70	—14.690	+ 130
550	β Ursae min.	2.0	14 50 56.169	—0.2050	— 78	+74 29 55.70	—14.717	+ 7
551	P. XIV, 221	6.0	14 52 15.299	+2.8308	— 10	+14 47 6.12	—14.663	— 18
552	β Lupi	2.7	14 53 1.349	+3.9154	— 51	—42 47 47.20	—14.660	— 60
553	[κ Centauri]	3.2	14 53 41.415	+3.8909	— 21	—41 46 4.47	—14.593	— 33
554	[2 H. Urs. min.]	4.8	14 56 14.541	+0.9441	— 147	+66 16 0.68	—14.371	+ 34
555	β Bootis	3.3	14 58 46.913	+2.2600	— 36	+40 43 16.51	—14.292	— 43
556	γ Scorpii	3.4	14 59 8.974	+3.5050	— 57	—24 57 9.59	—14.282	— 55
557	ψ Bootis	4.5	15 0 50.764	+2.5705	— 131	+27 16 28.26	—14.137	— 15
558	ζ Lupi	3.4	15 6 14.456	+4.2916	— 133	—51 46 49.39	—13.856	— 73
559	[ι Librae]	4.6	15 7 25.780	+3.4143	— 32	—19 28 28.70	—13.755	— 47
561	[β Circini]	4.2	15 10 55.581	+4.6727	— 130	—58 29 18.43	—13.632	— 149

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
			h m s	s		° ′ ″	″	
562	[3 Serpentis]	5.5	15 11 0.751	+2.9805	− 12	+ 5 15 1.55	−13.484	− 7
560	γ Triang. austr.	2.9	15 11 2.931	+5.5577	−101	−68 22 13.36	−13.512	− 37
563	δ Bootis	3.2	15 12 6.974	+2.4191	+ 73	+33 37 39.20	−13.527	− 122
564	β Librae	2.5	15 12 29.070	+3.2251	− 64	− 9 4 25.54	−13.409	− 27
565	1 H. Urs. min.	5.3	15 13 40.144	+0.6781	+386	+67 39 55.81	−13.700	− 396
566	φ¹ Lupi	3.5	15 16 28.231	+3.7973	− 82	−35 57 27.03	−13.215	− 95
569	γ Ursae min.	3.0	15 20 51.081	−0.1163	− 32	+72 7 58.41	−12.812	+ 16
568	μ Bootis	4.1	15 21 19.006	+2.2661	−123	+37 40 16.13	−12.716	+ 81
570	[τ¹ Serpentis]	5.5	15 21 53.590	+2.7814	− 11	+15 43 21.42	−12.781	− 24
567	[κ¹ Apodis]	5.9	15 22 19.868	+6.4711	+ 5	−73 5 58.41	−12.765	− 37
571	ι Draconis	3.2	15 23 3.546	+1.3317	− 5	+59 15 35.87	−12.664	+ 14
572	β Coron. bor.	3.7	15 24 21.935	+2.4737	−131	+29 23 40.51	−12.514	+ 76
573	ν¹ Bootis	4.8	15 27 54.704	+2.1547	+ 10	+41 7 7.72	−12.360	− 13
574	[ε Triang. austr.]	4.3	15 29 0.958	+5.4529	+ 29	−66 2 8.84	−12.353	− 82
575	γ Lupi	2.9	15 29 32.197	+3.9865	− 26	−40 53 7.17	−12.275	− 39
576	[ϑ Coron. bor.]	4.1	15 29 32.516	+2.4186	− 17	+31 38 30.84	−12.261	− 26
577	γ Librae	4.1	15 30 49.481	+3.3521	+ 43	−14 30 36.60	−12.143	+ 3
578	α Coron. bor.	2.2	15 31 7.857	+2.5397	+ 93	+26 59 48.04	−12.223	− 98
579	[3 H. Scorpii]	3.9	15 31 55.234	+3.6354	− 11	−27 51 27.94	−12.080	− 11
580	[φ Bootis]	5.3	15 34 48.588	+2.1545	+ 58	+40 37 34.68	−11.815	+ 52
581	[γ Coron. bor.]	3.8	15 39 12.901	+2.5193	− 74	+26 33 39.53	−11.520	+ 34
582	α Serpentis	2.5	15 40 7.754	+2.9533	+ 91	+ 6 41 20.82	−11.446	+ 42
583	β Serpentis	3.4	15 42 18.610	+2.7682	+ 51	+15 41 2.07	−11.386	− 55
584	κ Serpentis	4.0	15 44 57.487	+2.6999	− 31	+18 24 0.67	−11.238	− 98
585	μ Serpentis	3.3	15 45 14.075	+3.1284	− 59	− 3 10 26.43	−11.151	− 32
587	[12 H. Dracon.]	5.3	15 45 22.941	+0.9082	+ 55	+62 51 31.94	−11.170	− 61
586	[χ Lupi]	4.1	15 45 36.970	+3.8043	− 15	−33 22 19.64	−11.122	− 30
588	ε Serpentis	3.5	15 46 37.645	+2.9887	+ 84	+ 4 43 47.10	−10.959	+ 59
590	ζ Ursae min.	4.3	15 47 1.771	−2.2039	+ 60	+78 3 12.49	−10.990	− 1
589	β Triang. austr.	2.9	15 47 43.752	+5.2591	−279	−63 10 21.38	−11.344	− 407
591	[γ Serpentis]	3.7	15 52 34.328	+2.7698	+212	+15 56 5.75	−11.875	−1295
592	[π Scorpii]	4.1	15 53 45.979	+3.6234	− 15	−25 52 23.91	−10.528	− 37
593	ε Coron. bor.	4.0	15 54 6.543	+2.4827	− 61	+27 7 13.35	−10.534	− 68
594	δ Scorpii	2.3	15 55 21.806	+3.5428	− 8	−22 23 1.12	−10.408	− 36
595	[Gr. 2296]	5.1	15 55 47.711	+1.4197	−187	+54 59 12.05	−10.229	+ 111
598	ϑ Draconis	3.8	16 0 18.795	+1.1208	−402	+58 47 21.42	− 9.659	+ 340
596	[δ Normae]	4.8	16 0 32.901	+4.2289	− 5	−44 56 47.35	− 9.975	+ 6
597	β Scorpii	2.6	16 0 32.981	+3.4840	− 7	−19 34 35.38	−10.008	− 27
599	[ϑ Lupi]	4.4	16 1 4.267	+3.9308	− 29	−36 34 28.55	− 9.982	− 41
601	[φ Herculis]	4.0	16 6 7.342	+1.8892	− 23	+45 9 16.32	− 9.524	+ 31

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in $0^s.0001$	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in $0''.001$
600	[ϰ Normae]	5.3	$16^h\ 6^m\ 50^s.639$	$+4^s.7130$	− 42	$-54°\ 24'\ 52''.48$	$-9''.565$	− 65
602	[δ Triang. austr.]	4.0	16 7 46.864	+5.4360	+ 7	−63 28 20.40	−9.454	− 26
603	δ Ophiuchi	2.8	16 9 56.517	+3.1417	− 30	− 3 28 44.24	−9.410	−150
606	19 Ursae min.	5.8	16 13 12.065	−1.7482	− 4	+76 5 22.32	−8.994	+ 12
604	γ^2 Normae	4.2	16 13 32.840	+4.4751	−190	−49 57 1.97	−9.041	− 61
605	ε Ophiuchi	3.2	16 13 52.494	+3.1718	+ 53	− 4 29 19.28	−8.923	+ 31
607	[σ Scorpii]	3.1	16 16 4.769	+3.6418	− 11	−25 23 32.19	−8.814	− 33
608	τ Herculis	3.6	16 17 12.902	+1.8022	− 9	+46 30 46.20	−8.659	+ 32
609	γ Herculis	3.5	16 18 12.815	+2.6452	− 36	+19 20 58.60	−8.573	+ 40
610	[ζ Triang. austr.]	5.2	16 19 24.879	+6.4143	+366	−69 53 47.94	−8.435	+ 83
612	[η Ursae min.]	5.1	16 19 56.559	−1.7879	−216	+75 56 57.88	−8.220	+256
611	γ Apodis	3.9	16 20 31.567	+9.1078	−385	−78 42 38.42	−8.500	− 71
613	[ω Herculis]	4.7	16 21 32.299	+2.7675	+ 28	+14 13 32.71	−8.418	− 68
614	[Gr. 2343]	5.8	16 22 35.027	+1.3101	+ 20	+55 23 44.51	−8.248	+ 18
615	η Draconis	2.7	16 22 51.010	+0.8072	− 28	+61 42 14.80	−8.184	+ 61
616	α Scorpii	1.2	16 24 15.240	+3.6742	− 7	−26 14 47.83	−8.161	− 28
618	β Herculis	2.6	16 26 36.491	+2.5781	− 69	+21 40 18.63	−7.965	− 21
617	[λ Ophiuchi]	3.7	16 26 40.525	+3.0239	− 23	+ 2 10 0.37	−8.029	− 90
619	*A* Draconis	5.0	16 28 8.435	−0.1295	− 51	+68 56 59.68	−7.786	+ 35
620	[τ Scorpii]	2.9	16 30 39.003	+3.7300	− 11	−28 2 34.08	−7.652	− 33
621	σ Herculis	4.1	16 31 23.673	+1.9335	− 6	+42 36 34.79	−7.520	+ 38
622	ζ Ophiuchi	2.6	16 32 31.900	+3.3011	+ 9	−10 23 52.47	−7.444	+ 22
623	[Gr. 2373]	6.5	16 34 14.172	−2.6233	−317	+77 36 51.84	−7.052	+275
624	[24 Scorpii]	5.2	16 36 42.752	+3.4666	− 18	−17 34 49.94	−7.128	− 2
625	α Triang. austr.	1.9	16 39 45.427	+6.3248	+ 32	−68 52 30.56	−6.925	− 49
626	η Herculis	3.3	16 40 0.947	+2.0562	+ 34	+39 4 53.07	−6.939	− 84
627	Gr. 2377	4.9	16 43 42.125	+1.1357	+ 29	+56 55 53.57	−6.493	+ 58
628	ε Scorpii	2.3	16 44 43.137	+3.8803	−501	−34 8 30.27	−6.721	−254
629	49 Herculis	6.5	16 48 15.349	+2.7305	+ 12	+15 6 51.44	−6.180	− 6
630	ζ^2 Scorpii	3.8	16 48 40.051	+4.2135	−134	−42 13 6.76	−6.377	−238
631	ζ Arae	3.0	16 51 39.789	+4.9535	− 30	−55 51 31.57	−5.937	− 48
632	[ε^1 Arae]	4.0	16 52 52.956	+4.7707	− 19	−53 1 57.62	−5.795	− 8
633	ϰ Ophiuchi	3.2	16 53 41.481	+2.8383	−198	+ 9 30 17.04	−5.732	− 13
634	ε Herculis	3.6	16 57 4.514	+2.2948	− 35	+31 2 57.73	−5.411	+ 24
635	[60 Herculis]	4.9	17 1 28.928	+2.7809	+ 34	+12 51 19.06	−5.078	− 15
636	[Gr. 2415]	6.4	17 5 2.294	+1.9561	− 29	+40 37 30.89	−4.789	− 28
637	η Ophiuchi	2.4	17 5 33.538	+3.4381	+ 23	−15 37 18.88	−4.627	+ 90
638	[η Scorpii]	3.4	17 6 8.026	+4.2918	+ 17	−43 7 46.59	−4.966	−298
639	ζ Draconis	3.0	17 8 32.439	+0.1684	− 29	+65 49 4.87	−4.441	+ 22
640	α Herculis	(3.0)	17 10 48.991	+2.7345	− 8	+14 29 6.69	−4.240	+ 29

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
641	δ Herculis	3.0	17h 11m 34s.847	+2s.4636	− 15	+24° 56′ 14″.97	−4″.362	−159
643	π Herculis	3.1	17 12 7.252	+2.0889	− 21	+36 54 11.34	−4.156	+ 1
642	[ι Apodis]	5.7	17 12 43.163	+6.6721	− 14	−70 2 11.71	−4.133	− 27
644	ϑ Ophiuchi	3.2	17 16 50.931	+3.6818	− 7	−24 55 0.21	−3.777	− 25
645	β Arae	2.7	17 18 18.808	+4.9802	− 14	−55 27 6.66	−3.668	− 42
646	[*d* Ophiuchi]	4.5	17 21 59.298	+3.8279	+ 6	−29 47 31.41	−3.454	−145
647	[27 H. Ophiuchi]	4.5	17 22 10.416	+3.1824	− 58	− 5 0 47.97	−3.344	− 51
648	δ Arae	3.6	17 23 30.745	+5.4087	− 70	−60 36 54.35	−3.279	−101
650	[*x* Herculis]	6.0	17 24 30.618	+1.5893	+ 2	+48 19 47.61	−3.110	− 19
649	[υ Scorpii]	2.8	17 25 2.944	+4.0739	− 24	−37 13 47.75	−3.084	− 39
651	α Arae	2.8	17 25 20.725	+4.6328	− 39	−49 48 39.19	−3.113	− 94
652	λ Scorpii	1.7	17 27 54.125	+4.0700	− 14	−37 2 37.04	−2.830	− 32
653	β Draconis	2.7	17 28 32.044	+1.3545	− 15	+52 21 47.15	−2.734	+ 10
655	[ν[1] Draconis]	4.7	17 30 31.287	+1.1804	+176	+55 14 28.39	−2.521	+ 51
657	[ν[2] Draconis]	4.8	17 30 36.697	+1.1817	+182	+55 13 47.09	−2.512	+ 52
656	α Ophiuchi	2.1	17 31 2.068	+2.7838	+ 79	+12 37 12.94	−2.760	−233
654	ϑ Scorpii	1.9	17 31 16.817	+4.3067	0	−42 56 44.22	−2.523	− 18
659	[*f* Draconis]	5.2	17 32 17.851	−0.2454	− 32	+68 11 18.99	−2.283	+134
658	ξ Serpentis	3.5	17 32 46.531	+3.4334	− 34	−15 20 48.12	−2.440	− 64
660	[κ Scorpii]	2.5	17 36 40.477	+4.1473	− 15	−38 59 15.94	−2.063	− 26
663	ι Herculis	3.6	17 37 5.582	+1.6928	− 5	+46 3 1.35	−2.004	− 4
664	ω Draconis	4.9	17 37 26.456	−0.3542	+ 14	+68 47 48.82	−1.647	+323
662	[μ Arae]	5.6	17 37 28.358	+4.7592	− 29	−51 47 26.13	−2.175	−208
661	η Pavonis	3.5	17 37 29.074	+5.8820	− 22	−64 41 6.13	−2.022	− 56
665	β Ophiuchi	2.8	17 39 19.336	+2.9628	− 27	+ 4 36 5.08	−1.653	+153
666	[ι[1] Scorpii]	3.0	17 41 42.450	+4.1932	− 10	−40 5 43.80	−1.601	− 3
667	μ Herculis	3.3	17 43 10.199	+2.3467	−241	+27 46 8.58	−2.221	−750
670	ψ Drac. austr.	4.7	17 43 25.739	−1.0736	+ 29	+72 11 25.41	−1.715	−267
668	[γ Ophiuchi]	3.7	17 43 40.812	+3.0073	− 16	+ 2 44 16.55	−1.503	− 77
669	[*G* Scorpii]	3.1	17 44 8.352	+4.0821	+ 42	−37 1 3.46	−1.360	+ 26
671	ξ Draconis	3.6	17 52 4.564	+1.0370	+120	+56 53 7.70	−0.617	+ 76
675	35 Draconis	5.1	17 53 12.439	−2.6900	+117	+76 58 28.99	−0.353	+241
672	ϑ Herculis	3.8	17 53 22.311	+2.0569	+ 4	+37 15 39.49	−0.575	+ 5
673	ν Ophiuchi	3.4	17 54 24.090	+3.3018	− 7	− 9 45 51.25	−0.607	−118
674	[ξ Herculis]	3.7	17 54 30.020	+2.3309	+ 66	+29 15 21.95	−0.507	− 26
676	γ Draconis	2.3	17 54 39.310	+1.3923	− 9	+51 29 53.80	−0.490	− 22
677	67 Ophiuchi	4.0	17 56 26.257	+3.0041	0	+ 2 56 4.83	−0.325	− 13
678	[Apodis 66 G.]	6.0	17 59 30.395	+8.3863	− 48	−75 53 43.41	−0.313	−270
679	γ Sagittarii	3.0	18 0 24.661	+3.8528	− 48	−30 25 34.40	−0.158	−194
680	72 Ophiuchi	3.6	18 3 22.013	+2.8436	− 42	+ 9 33 3.62	+0.373	+ 79

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681	o Herculis	3.8	18ʰ 4ᵐ 15ˢ.930	+2ˢ.3398	+ 2	+28° 45′ 0″.42	+0″.373	0
682	μ Sagittarii	3.9	18 8 44.367	+3.5872	— 3	—21 4 54.81	+0.761	— 3
683	[η Sagittarii]	3.1	18 11 56.551	+4.0588	— 118	—36 47 16.68	+0.881	—163
684	[Gr. 2533]	5.6	18 13 1.977	+1.8652	— 6	+42 7 48.05	+1.132	— 7
685	[36 Draconis]	5.0	18 13 24.788	+0.3454	+ 533	+64 22 7.19	+1.202	+ 29
686	[ξ Pavonis]	4.2	18 15 29.106	+5.5291	— 26	—61 31 59.67	+1.370	+ 17
687	[δ Sagittarii]	2.7	18 15 36.978	+3.8409	+ 27	—29 51 53.48	+1.333	— 32
688	η Serpentis	3.2	18 16 57.778	+3.1034	— 372	— 2 55 17.74	+0.784	—698
689	ε Sagittarii	1.9	18 18 35.783	+3.9825	— 30	—34 25 31.29	+1.498	—127
690	109 Herculis	3.9	18 20 7.089	+2.5560	+ 140	+21 43 50.24	+1.500	—257
691	α Telescopii	3.7	18 20 44.706	+4.4495	— 21	—46 0 56.80	+1.765	— 47
693	[φ Draconis]	4.3	18 21 57.806	—0.8576	— 17	+71 17 35.96	+1.951	+ 33
695	χ Draconis	3.6	18 22 34.350	—1.0797	+1166	+72 41 48.09	+1.606	—365
694	*b* Draconis	5.1	18 22 41.045	+0.8765	— 45	+58 45 6.14	+2.039	+ 59
692	[λ Sagittarii]	2.8	18 22 47.188	+3.7023	— 37	—25 28 8.98	+1.802	—188
696	[2 H. Scuti]	4.8	18 24 24.583	+3.4190	— 3	—14 37 13.01	+2.133	+ 2
697	[ϑ Coron. austr.]	4.7	18 27 30.261	+4.2845	+ 14	—42 22 26.89	+2.376	— 24
698	ζ Pavonis	4.0	18 33 13.568	+7.0226	— 25	—71 30 7.29	+2.719	—178
700	[Gr. 2655]	6.1	18 33 48.851	—2.8821	— 10	+77 28 56.36	+2.944	— 3
699	α Lyrae	1	18 34 5.651	+2.0313	+ 176	+38 42 17.25	+3.252	+281
701	[Gr. 2640]	6.2	18 35 57.489	+0.1897	+ 19	+65 24 48.31	+3.217	+ 84
702	[5 H. Scuti]	5.1	18 38 56.778	+3.2674	+ 13	— 8 21 32.83	+3.400	+ 9
703	110 Herculis	4.1	18 42 2.778	+2.5811	— 12	+20 27 54.29	+3.317	—340
704	λ Pavonis	4.3	18 44 26.218	+5.5662	— 26	—62 17 6.94	+3.835	— 27
705	β Lyrae	(3.3)	18 46 58.708	+2.2147	+ 3	+33 15 52.15	+4.079	— 2
707	o Draconis	4.6	18 49 57.773	+0.8870	+ 105	+59 17 7.28	+4.360	+ 24
706	σ Sagittarii	2.1	18 50 3.434	+3.7207	+ 4	—26 24 7.73	+4.281	— 63
708	λ Telescopii	5.1	18 51 44.699	+4.8045	+ 3	—53 2 58.54	+4.502	+ 14
709	ϑ Serpent. pr.	4.5	18 52 2.619	+2.9824	+ 29	+ 4 5 36.00	+4.541	+ 28
710	[ξ Sagittarii]	3.6	18 52 43.155	+3.5796	+ 18	—21 13 5.13	+4.554	— 16
711	*R* Lyrae	(4.5)	18 52 46.760	+1.8262	+ 28	+43 50 5.26	+4.652	+ 76
714	[υ Draconis]	5.0	18 55 25.884	—0.7250	+ 104	+71 11 6.40	+4.842	+ 40
713	γ Lyrae	3.2	18 55 48.059	+2.2437	— 4	+32 34 24.99	+4.831	— 2
712	[ε Aquilae]	4.0	18 55 48.575	+2.7220	— 42	+14 57 12.01	+4.753	— 80
715	[ζ Sagittarii]	2.7	18 57 16.076	+3.8182	— 21	—30 0 4.21	+4.959	+ 2
716	ζ Aquilae	3.0	19 1 32.943	+2.7569	— 7	+13 44 15.74	+5.218	—101
717	λ Aquilae	3.2	19 1 47.483	+3.1839	— 16	— 5 0 33.93	+5.253	— 87
718	α Coron. austr.	4.1	19 3 45.510	+4.0838	+ 59	—38 2 11.17	+5.396	—109
719	[ι Lyrae]	5.2	19 4 18.246	+2.1405	— 3	+35 58 4.00	+5.547	— 3
720	π Sagittarii	2.9	19 4 46.142	+3.5688	— 5	—21 9 29.36	+5.555	— 35

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721	[Pavonis 60 G.]	5.7	19h 8m 45s.739	+6s.0517	− 7	−66° 48′ 26″.90	+ 5″.904	− 21
723	δ Draconis	3.0	19 12 32.358	+0.0213	+ 167	+67 30 49.46	+ 6.327	+ 88
722	[*d* Sagittarii]	5.2	19 12 43.269	+3.5112	− 12	−19 6 11.93	+ 6.245	− 9
724	ϑ Lyrae	4.3	19 13 27.121	+2.0816	− 7	+37 59 0.37	+ 6.314	− 1
725	ω Aquilae	5.4	19 13 52.415	+2.8158	− 3	+11 26 35.06	+ 6.363	+ 13
726	κ Cygni	3.8	19 15 9.730	+1.3876	+ 69	+53 12 46.75	+ 6.576	+ 119
727	[υ Sagittarii]	4.5	19 16 55.053	+3.4372	0	−16 6 48.84	+ 6.600	− 2
729	τ Draconis	4.5	19 17 10.568	−1.1374	− 324	+73 11 59.64	+ 6.734	+ 110
728	α Sagittarii	4.0	19 18 4.093	+4.1607	+ 18	−40 46 29.95	+ 6.579	− 118
730	δ Aquilae	3.3	19 21 15.796	+3.0249	+ 168	+ 2 56 47.04	+ 7.041	+ 81
731	[Sagittar. 186 G.]	5.8	19 21 38.056	+3.7939	+ 7	−29 54 37.11	+ 6.943	− 47
734	[Gr. 2900]	6.4	19 26 48.067	−3.5753	+ 95	+79 26 7.57	+ 7.377	− 35
732	β Cygni	3.0	19 27 20.005	+2.4189	− 2	+27 46 56.98	+ 7.448	− 8
733	ι Cygni	3.9	19 27 35.315	+1.5133	+ 23	+51 33 0.99	+ 7.601	+ 125
735	[ι Telescopii]	5.1	19 28 59.209	+4.4559	− 41	−48 16 52.69	+ 7.549	− 40
736	*h* Sagittarii	4.6	19 31 35.819	+3.6531	+ 46	−25 4 11.89	+ 7.778	− 22
737	[κ Aquilae]	5.0	19 32 22.401	+3.2286	+ 3	− 7 12 54.34	+ 7.863	0
738	ϑ Cygni	4.5	19 34 11.326	+1.6084	− 28	+50 1 33.51	+ 8.255	+ 247
739	[ν Telescopii]	5.5	19 41 9.934	+4.9113	+ 86	−56 33 55.98	+ 8.427	− 137
740	[15 Cygni]	5.2	19 41 14.812	+2.1632	+ 59	+37 9 2.89	+ 8.606	+ 35
741	γ Aquilae	2.7	19 42 15.970	+2.8521	+ 9	+10 24 27.95	+ 8.651	0
742	δ Cygni	2.8	19 42 20.990	+1.8756	+ 51	+44 55 30.39	+ 8.697	+ 39
743	δ Sagittae	3.8	19 43 38.529	+2.6749	+ 4	+18 19 34.56	+ 8.772	+ 13
744	[51 Aquilae]	5.8	19 46 9.563	+3.3025	− 21	−10 58 38.76	+ 8.998	+ 41
745	α Aquilae	1	19 46 41.090	+2.9271	+ 360	+ 8 38 44.38	+ 9.380	+ 383
746	[η Aquilae]	(4.0)	19 48 11.668	+3.0568	+ 6	+ 0 47 21.06	+ 9.107	− 9
747	ε Draconis	3.8	19 48 27.853	−0.1894	+ 156	+70 3 14.29	+ 9.166	+ 29
748	ε Pavonis	3.8	19 50 53.827	+6.9890	+ 146	−73 8 1.34	+ 9.193	− 132
749	β Aquilae	3.7	19 51 11.228	+2.9468	+ 25	+ 6 11 46.11	+ 8.868	− 480
750	ψ Cygni	5.0	19 53 27.510	+1.5515	− 43	+52 12 55.64	+ 9.492	− 31
751	ϑ[1] Sagittarii	4.3	19 54 16.260	+3.9088	− 12	−35 30 15.86	+ 9.550	− 36
752	γ Sagittae	3.6	19 55 1.270	+2.6675	+ 43	+19 15 47.65	+ 9.667	+ 24
753	[*c* Sagittarii]	4.6	19 57 29.708	+3.6925	+ 21	−27 56 39.41	+ 9.850	+ 18
754	δ Pavonis	3.5	20 0 29.844	+5.9139	+1960	−66 23 51.30	+ 8.897	−1164
755	[ξ Telescopii]	5.2	20 0 57.257	+4.6072	− 44	−53 7 20.44	+10.093	− 2
756	ϑ Aquilae	3.1	20 6 58.280	+3.0960	+ 22	− 1 4 17.23	+10.552	+ 5
757	o[1] Cygni sq.	4.3	20 10 59.191	+1.8892	+ 4	+46 29 9.54	+10.844	+ 1
758	[33 Cygni]	4.3	20 11 26.760	+1.3962	+ 74	+56 18 37.34	+10.962	+ 85
759	κ Cephei	4.3	20 11 44.428	−1.9682	+ 12	+77 27 32.33	+10.926	+ 27
760	24 Vulpeculae	5.7	20 13 11.416	+2.5669	+ 12	+24 24 41.81	+10.986	− 19

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			h m s	s		° ′ ″	″	
761	α^2 Capricorni	3.6	20 13 23.724	+3.3304	+ 40	−12 48 21.52	+11.031	+ 11
762	[β Capricorni]	3.1	20 16 17.590	+3.3725	+ 23	−15 2 50.87	+11.236	+ 6
763	[$\varkappa^1$ Sagittarii]	5.8	20 16 45.582	+4.0828	+ 37	−42 18 54.94	+11.168	− 96
764	α Pavonis	1.9	20 19 0.638	+4.7648	+ 11	−57 0 18.60	+11.342	− 85
765	γ Cygni	2.3	20 19 12.787	+2.1527	+ 4	+39 59 13.98	+11.441	0
766	[ρ Capricorni]	5.0	20 24 4.265	+3.4244	− 14	−18 5 31.70	+11.772	− 16
767	ϑ Cephei	4.1	20 28 10.476	+1.0113	+ 62	+62 42 41.26	+12.062	− 14
768	ε Delphini	3.9	20 29 11.998	+2.8662	+ 5	+11 1 1.20	+12.123	− 25
769	α Jndi	3.0	20 31 39.806	+4.2300	+ 33	−47 35 7.10	+12.378	+ 60
770	73 Draconis	5.3	20 32 37.861	−0.7582	+ 15	+74 40 0.96	+12.373	− 12
771	β Delphini	3.5	20 33 36.599	+2.8131	+ 74	+14 18 7.89	+12.416	− 36
772	[ϰ Delphini]	5.1	20 35 2.978	+2.9140	+ 212	+ 9 47 22.56	+12.568	+ 18
773	υ Capricorni	5.5	20 35 16.199	+3.4180	− 17	−18 26 6.74	+12.549	− 16
774	α Delphini	3.7	20 35 44.188	+2.7866	+ 45	+15 36 53.90	+12.591	− 6
775	β Pavonis	3.3	20 37 24.273	+5.4429	− 71	−66 30 22.15	+12.712	+ 2
776	[η Jndi]	4.8	20 37 52.620	+4.4194	+ 157	−52 13 19.26	+12.669	− 73
777	α Cygni	1.3	20 38 34.072	+2.0447	+ 4	+44 58 46.56	+12.788	− 1
778	[δ Delphini]	4.2	20 39 32.239	+2.8008	− 14	+14 46 20.95	+12.806	− 48
779	[ψ Capricorni]	4.2	20 41 7.481	+3.5561	− 44	−25 34 24.98	+12.803	− 157
780	ε Cygni	2.4	20 42 48.718	+2.4271	+ 290	+33 39 18.01	+13.400	+ 327
781	ε Aquarii	3.6	20 43 7.802	+3.2492	+ 17	− 9 48 14.29	+13.066	− 28
782	[6 H. Cephei]	4.5	20 43 16.057	+1.4899	− 87	+57 16 40.36	+12.868	− 234
783	η Cephei	3.5	20 43 35.003	+1.2245	+ 133	+61 30 43.82	+13.942	+ 818
784	λ Cygni	4.6	20 44 8.155	+2.3359	+ 5	+36 10 53.34	+13.160	0
785	β Jndi	3.6	20 48 15.201	+4.7090	0	−58 46 18.94	+13.402	− 27
786	32 Vulpeculae	5.3	20 50 58.769	+2.5562	− 4	+27 44 15.11	+13.607	+ 1
788	ν Cygni	3.9	20 54 2.450	+2.2356	+ 9	+40 50 35.31	+13.784	− 17
787	[α Octantis]	5.5	20 54 34.977	+7.3777	− 18	−77 20 43.15	+13.480	− 355
789	[11 Aquarii]	6.4	20 56 8.495	+3.1600	+ 23	− 5 3 19.61	+13.801	− 133
790	ζ Microscopii	5.4	20 57 36.125	+3.8411	− 36	−38 57 37.08	+13.904	− 122
792	[ξ Cygni]	3.9	21 1 52.499	+2.1816	+ 12	+43 35 31.70	+14.287	− 3
791	[Δ Capricorni]	4.6	21 2 13.013	+3.5128	− 30	−25 20 32.62	+14.264	− 47
793	61 Cygni pr.	5.4	21 3 7.831	+2.6861	+3505	+38 20 8.65	+17.619	+3252
794	ν Aquarii	4.4	21 5 1.218	+3.2704	+ 62	−11 42 44.89	+14.472	− 9
795	Br. 2777	6.0	21 7 12.167	−1.1460	+ 74	+77 47 9.58	+14.649	+ 36
797	ζ Cygni	3.1	21 9 21.622	+2.5522	− 1	+29 52 54.39	+14.683	− 58
798	[Gr. 3415]	5.8	21 9 39.964	+1.5282	− 6	+59 38 26.71	+14.757	− 2
796	[Jndi 23 G.]	5.9	21 9 46.185	+4.2972	− 19	−53 36 42.30	+14.720	− 46
799	[τ Cygni]	3.8	21 11 26.225	+2.3937	+ 137	+37 41 10.73	+15.299	+ 435
800	α Equulei	3.9	21 11 37.521	+2.9996	+ 38	+ 4 53 59.59	+14.787	− 87

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801	[4 Pisc. austr.]	4.8	21h 12m 50s.869	+3s.6440	+ 35	−32° 31′ 27″.29	+14″.920	− 26
802	[ϑ¹ Microscop.]	4.9	21 15 23.597	+3.8486	+ 70	−41 9 54.59	+15.108	+ 14
803	α Cephei	2.5	21 16 34.533	+1.4337	+ 212	+62 13 45.62	+15.211	+ 49
804	1 Pegasi	4.2	21 18 12.077	+2.7739	+ 74	+19 26 40.09	+15.315	+ 61
805	γ Pavonis	4.2	21 19 30.802	+4.9972	+ 132	−65 44 49.92	+16.117	+ 788
806	ζ Capricorni	3.8	21 21 52.443	+3.4296	− 1	−22 46 33.11	+15.484	+ 23
807	[g Cygni]	5.4	21 26 20.915	+2.2126	+ 49	+46 10 10.86	+15.810	+ 103
808	β Aquarii	2.9	21 27 8.279	+3.1598	+ 11	− 5 56 28.72	+15.745	− 5
809	β Cephei	3.1	21 27 34.916	+0.7851	+ 20	+70 11 30.46	+15.780	+ 7
810	ν Octantis	3.7	21 32 10.858	+6.7903	+ 131	−77 45 50.68	+15.762	− 256
811	74 Cygni	5.1	21 33 34.842	+2.4028	− 3	+40 2 8.40	+16.104	+ 12
812	[γ Capricorni]	3.6	21 35 26.355	+3.3273	+ 131	−17 2 32.21	+16.172	− 16
813	[13 H. Cephei]	6.1	21 36 21.241	+1.8613	+ 7	+57 6 31.74	+16.238	+ 2
814	[ι Pisc.austr.]	4.4	21 39 56.801	+3.5802	+ 18	−33 24 34.58	+16.328	− 89
815	ε Pegasi	2.3	21 40 3.616	+2.9464	+ 18	+ 9 29 21.45	+16.423	0
817	[11 Cephei]	4.8	21 40 41.755	+0.8891	+ 234	+70 55 28.07	+16.553	+ 98
816	[κ Pegasi]	4.1	21 40 50.419	+2.7153	+ 25	+25 15 30.23	+16.472	+ 10
818	[λ Capricorni]	5.5	21 42 0.917	+3.2321	+ 20	−11 45 13.91	+16.517	− 4
819	δ Capricorni	2.8	21 42 24.388	+3.3142	+ 178	−16 30 32.55	+16.246	− 294
821	π² Cygni	4.3	21 43 41.313	+2.2145	+ 8	+48 55 13.42	+16.600	− 4
820	[o Jndi]	5.6	21 43 41.983	+5.1234	− 87	−70 1 16.07	+16.583	− 21
822	γ Gruis	3.0	21 48 50.781	+3.6408	+ 77	−37 45 37.88	+16.833	− 18
823	16 Pegasi	5.2	21 49 14.344	+2.7283	+ 4	+25 31 45.93	+16.872	+ 1
824	[δ Jndi]	4.6	21 52 12.549	+4.1017	+ 43	−55 23 33.84	+16.980	− 29
825	[ε Jndi]	4.9	21 56 56.662	+4.6117	+4812	−57 7 54.62	+14.642	−2583
826	[20 Pegasi]	5.8	21 56 59.784	+2.9220	+ 36	+12 43 1.22	+17.173	− 54
827	α Aquarii	2.9	22 1 28.208	+3.0820	+ 10	− 0 43 42.33	+17.417	− 7
828	ι Aquarii	4.2	22 1 54.141	+3.2426	+ 24	−14 16 39.61	+17.391	− 51
830	20 Cephei	5.7	22 2 27.263	+1.8218	+ 22	+62 22 31.86	+17.527	+ 60
829	α Gruis	1.8	22 2 56.708	+3.7941	+ 119	−47 22 6.54	+17.316	− 171
831	[ι Pegasi]	3.9	22 3 5.958	+2.7911	+ 219	+24 56 3.61	+17.516	+ 22
832	[μ Pisc.austr.]	4.6	22 3 29.109	+3.5056	+ 41	−33 23 56.19	+17.470	− 41
833	[27 Pegasi]	5.8	22 5 30.233	+2.6564	− 42	+32 45 41.54	+17.531	− 65
834	ϑ Pegasi	3.6	22 5 57.762	+3.0264	+ 184	+ 5 47 2.79	+17.646	+ 31
835	π Pegasi	4.3	22 6 15.305	+2.6622	− 9	+32 45 56.15	+17.608	− 19
836	ζ Cephei	3.4	22 7 56.262	+2.0778	+ 14	+57 47 12.57	+17.702	+ 6
837	24 Cephei	4.8	22 8 11.741	+1.1586	+ 54	+71 55 38.07	+17.715	+ 8
838	[λ Pisc.austr.]	5.4	22 9 33.291	+3.4061	+ 16	−28 11 1.54	+17.762	− 1
839	[ε Octantis]	5.3	22 10 40.418	+6.8994	+ 137	−80 51 31.10	+17.768	− 40
840	ϑ Aquarii	4.2	22 12 24.145	+3.1674	+ 76	− 8 12 7.21	+17.858	− 19

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
841	α Tucanae	2.8	22h 12m 45s.485	+4s.1359	— 98	−60° 40′ 43″.87	+17″.842	— 49
842	γ Aquarii	3.7	22 17 19.091	+3.0993	+ 83	— 1 48 39.95	+18.074	+ 7
843	[31 Pegasi]	4.9	22 17 22.955	+2.9519	— 1	+11 46 53.52	+18.078	+ 9
844	3 Lacertae	4.5	22 20 15.239	+2.3549	— 15	+51 48 28.06	+17.986	—191
845	[ν Gruis]	5.6	22 23 44.040	+3.5252	+ 24	−39 33 26.02	+18.141	—162
846	[δ¹ Gruis]	4.0	22 24 15.229	+3.5965	+ 17	−43 55 30.65	+18.313	— 8
847	[δ Cephei]	(4.1)	22 26 2.945	+2.2225	+ 17	+57 59 5.68	+18.387	+ 2
848	7 Lacertae	3.8	22 27 49.678	+2.4672	+ 147	+49 51 0.98	+18.463	+ 16
849	[υ Aquarii]	5.5	22 30 6.093	+3.2857	+ 155	−21 8 20.05	+18.379	—144
850	η Aquarii	3.9	22 31 2.427	+3.0834	+ 59	— 0 33 3.14	+18.499	— 55
851	[31 Cephei]	5.2	22 33 41.620	+1.4824	+ 382	+73 12 24.89	+18.664	+ 23
852	10 Lacertae	4.9	22 35 29.380	+2.6883	+ 4	+38 36 45.80	+18.692	— 6
853	[30 Cephei]	5.3	22 35 40.091	+2.1232	+ 1	+63 8 51.15	+18.682	— 22
854	[ε Pisc.austr.]	4.0	22 36 0.730	+3.3229	+ 12	−27 28 55.35	+18.717	+ 2
855	ζ Pegasi	3.3	22 37 16.324	+2.9914	+ 53	+10 23 32.92	+18.741	— 13
856	β Gruis	2.0	22 37 39.369	+3.5940	+ 117	−47 19 27.82	+18.740	— 25
857	η Pegasi	2.9	22 39 3.751	+2.8093	+ 12	+29 46 53.42	+18.776	— 33
858	[13 Lacertae]	5.4	22 40 20.531	+2.6710	— 6	+41 22 41.10	+18.852	+ 5
859	λ Pegasi	3.9	22 42 29.004	+2.8873	+ 41	+23 7 23.72	+18.900	— 10
860	ε Gruis	3.5	22 43 29.187	+3.6379	+ 96	−51 45 32.28	+18.866	— 73
861	[τ Aquarii]	4.0	22 45 8.758	+3.1786	— 12	−14 2 10.57	+18.953	— 33
862	[μ Pegasi]	3.6	22 45 56.836	+2.8932	+ 109	+24 9 27.79	+18.968	— 41
863	ι Cephei	3.5	22 46 41.149	+2.1279	— 114	+65 45 30.15	+18.906	—123
864	λ Aquarii	3.8	22 48 13.990	+3.1311	+ 5	— 8 1 36.85	+19.109	+ 38
865	ρ Jndi	6.3	22 48 49.913	+4.2170	— 101	−70 31 21.98	+19.149	+ 62
866	δ Aquarii	3.2	22 50 11.629	+3.1862	— 33	−16 16 4.17	+19.104	— 19
867	α Pisc. austr.	1.2	22 53 0.694	+3.3201	+ 247	−30 4 3.63	+19.036	—159
868	[ζ Gruis]	4.0	22 55 55.632	+3.5576	— 80	−53 12 17.64	+19.252	— 16
869	o Androm.	3.5	22 58 3.181	+2.7552	+ 25	+41 52 27.12	+19.305	— 13
870	β Pegasi	2.4	22 59 41.995	+2.9052	+ 145	+27 37 36.73	+19.493	+137
871	α Pegasi	2.4	23 0 34.518	+2.9865	+ 41	+14 45 10.86	+19.334	— 41
872	ϑ Gruis	4.2	23 2 9.073	+3.3895	— 52	−43 58 27.98	+19.373	— 38
873	c² Aquarii	3.7	23 4 58.180	+3.2019	+ 32	−21 37 42.93	+19.507	+ 36
874	π Cephei	4.5	23 5 13.322	+1.9002	+ 29	+74 55 59.72	+19.450	— 25
875	Br. 3077	5.8	23 9 13.940	+2.8783	+2527	+56 42 15.65	+19.851	+295
876	[Tucanae 25 G.]	5.9	23 11 55.156	+3.6295	+ 231	−62 27 34.08	+19.553	— 53
877	γ Tucanae	3.9	23 12 32.029	+3.5186	— 59	−58 41 47.20	+19.699	+ 82
878	[γ Piscium]	3.7	23 12 48.622	+3.1095	+ 503	+ 2 49 23.00	+19.640	+ 18
879	γ Sculptoris	4.4	23 14 17.466	+3.2455	+ 10	−32 59 23.45	+19.581	— 68
880	τ Pegasi	4.5	23 16 28.633	+2.9662	+ 21	+23 16 49.07	+19.672	— 13

Nr.	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
			h m s	s		° ′ ″	″	
882	4 Cassiopejae	5.5	23 21 5.997	+2.6530	+ 17	+61 49 17.25	+19.747	− 10
881	[υ Pegasi]	4.4	23 21 11.084	+2.9911	+138	+22 56 29.24	+19.794	+ 35
883	[ο Gruis]	5.7	23 21 54.752	+3.3676	− 4	−53 11 12.46	+19.888	+119
884	ϰ Piscium	5.1	23 22 37.576	+3.0752	+ 56	+ 0 47 44.05	+19.687	− 93
885	70 Pegasi	4.7	23 24 54.306	+3.0320	+ 38	+12 17 48.91	+19.839	+ 28
886	[β Sculptoris]	4.4	23 28 28.199	+3.2238	+ 65	−38 16 58.87	+19.870	+ 14
887	[72 Pegasi]	5.2	23 29 46.967	+2.9717	+ 40	+30 51 41.66	+19.859	− 12
888	[Aquarii 248 G.]	6.7	23 31 12.115	+3.0955	− 5	− 7 55 45.99	+19.911	+ 23
889	[Phoenicis 11 G.]	4.6	23 33 19.886	+3.2378	+ 47	−45 57 27.07	+19.873	− 37
890	[λ Androm.]	3.8	23 33 26.868	+2.9282	+156	+46 0 10.40	+19.488	−423
891	ι Androm.	4.1	23 34 0.724	+2.9352	+ 27	+42 48 10.30	+19.912	− 5
892	ι Piscium	4.1	23 35 37.736	+3.0845	+247	+ 5 10 14.96	+19.492	−440
893	γ Cephei	3.3	23 35 53.346	+2.4385	−182	+77 9 48.60	+20.092	+157
894	ω² Aquarii	4.5	23 38 22.045	+3.1129	+ 65	−15 0 34.05	+19.894	− 63
895	41 H. Cephei	5.2	23 43 53.084	+2.8501	+ 23	+67 20 24.14	+19.997	+ 1
896	Lac. δ Sculpt.	4.4	23 44 33.150	+3.1288	+ 71	−28 35 41.67	+19.895	−105
897	[Aquarii 268 G.]	6.3	23 45 54.668	+3.0963	+ 86	−10 26 35.03	+20.094	+ 86
898	φ Pegasi	5.4	23 48 12.739	+3.0486	− 8	+18 39 13.27	+19.980	− 39
899	[ρ Cassiopejae]	4.8	23 50 10.766	+2.9836	− 7	+57 1 55.31	+20.031	+ 4
900	[27 Piscium]	5.1	23 54 22.352	+3.0712	− 37	− 4 1 19.34	+19.971	− 68
901	[π Phoenicis]	5.2	23 54 34.797	+3.1178	+ 30	−53 12 54.88	+20.086	+ 46
902	ω Piscium	3.9	23 54 59.803	+3.0793	+100	+ 6 23 53.67	+19.931	−109
903	ε Tucanae	4.5	23 55 33.538	+3.1374	+ 64	−66 2 40.21	+20.009	− 33
904	[ϑ Octantis]	5.0	23 57 17.588	+3.1221	−220	−77 31 46.08	+19.873	−171
905	[2 Ceti]	4.5	23 59 26.254	+3.0748	+ 12	−17 48 12.93	+20.042	− 4

[1]) Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach Auwers A. N. 3085 (vergl. Neuer Fundamental-Katalog, Seite 98):

1916.0: $\Delta\alpha = -0^s.231$ $\Delta\delta = -0''.94$
1917.0: $= -0.232$ $= -1.07$.

[2]) Rektaszension der Mitte, Deklination des folgenden helleren Sterns.

[3]) Ort des Schwerpunkts. Die Reduktion auf den Ort des helleren Sterns beträgt nach Auwers A. N. 3929 (vergl. Neuer Fundamental-Katalog, Seite 98):

1916.0: $\Delta\alpha = -0^s.057$ $\Delta\delta = -0''.24$
1917.0: $= -0.057$ $= -0.11$.

[4]) Schwerpunkt des Systems. Abstände vom Schwerpunkt nach See M. N. Dez. 1893 (vergl. Neuer Fundamental-Katalog, Seite 99):

heller Stern 1916.0: $\Delta\alpha = +0^s.658$ $\Delta\delta = +6''.25$
1917.0: $+0.647$ $+5.98$
Begleiter 1916.0: $\Delta\alpha = -0^s.774$ $\Delta\delta = -7''.35$
1917.0: -0.760 -7.03.

Nördliche Polsterne

	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
Na	43 H. Cephei	4.3	0h 57m 1s.70	+ 7s.636	+ 74	+85° 48′ 25″.73	+19″.427	— 1
Nb	α Ursae-min.	2.0	1 29 44.25	+28.776	+143	+88 51 24.92	+18.530	+ 2
Nc	Gr. 750	6.8	4 9 45.01	+17.602	+ 16	+85 20 0.45	+ 9.308	+ 32
Nd	51 H. Cephei	5.2	7 1 35.24	+29.208	— 50	+87 10 59.84	— 5.358	— 36
Ne	1 H. Dracon.	4.3	9 25 12.90	+ 8.793	— 6	+81 41 57.20	—15.665	— 20
Nf	[30 H. Camel.]	5.2	10 20 57.15	+ 7.576	— 47	+82 59 12.90	—18.171	+ 31
Ng	ε Ursae min.	4.2	16 54 31.78	— 6.253	+ 7	+82 10 38.64	— 5.643	+ 6
Nh	δ Ursae min.	4.3	17 59 20.82	—19.499	+ 17	+86 36 51.42	0.000	+ 57
Ni	λ Ursae min.	6.8	19 3 51.94	—71.808	— 94	+89 0 56.82	+ 5.522	+ 8
Nk	76 Draconis	6.0	20 48 44.74	— 4.160	+ 16	+82 13 16.48	+13.488	+ 27

Südliche Polsterne

	Name	Gr.	AR. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.001	Dekl. 1916.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
Sa	Octantis 4 G.	6	1h 42m 6s.44	— 3s.759	+ 18	—85° 11′ 39″.39	+18″.123	+ 35
Sb	[ξ Mensae]	6.0	5 8 23.31	— 6.940	— 4	—82 35 4.14	+ 4.490	+ 14
Sc	ζ Octantis	6—5	9 9 7.02	— 8.116	— 93	—85 19 42.60	—14.679	+ 48
Sd	ι Octantis	6—5	12 46 1.38	+ 5.970	+ 42	—84 40 2.82	—19.618	+ 25
Se	Octantis 20 G.	7	14 45 44.33	+26.014	—182	—87 48 35.16	—15.095	— 67
Sf	Octantis 26 G.	6—7	16 29 18.96	+21.712	+ 5	—86 12 50.35	— 7.728	— 2
Sg	χ Octantis	6	18 5 36.46	+35.736	— 93	—87 39 52.23	+ 0.363	—127
Sh	σ Octantis	6	19 26 7.74	+95.280	+114	—89 13 35.99	+ 7.356	— 1
Si	β Octantis	4.1	22 37 32.92	+ 6.320	— 26	—81 49 21.15	+18.765	+ 3
Sk	τ Octantis	6	23 15 58.83	+10.200	+ 21	—87 56 38.06	+19.692	+ 15

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	1) α Andromedae				2) β Cassiopejae				3) ε Phoenicis				7) γ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$0^h\ 4^m$		$+28°\ 37'$		$0^h\ 4^m$		$+58°\ 41'$		$0^h\ 5^m$		$-46°\ 12'$		$0^h\ 8^m$		$+14°\ 42'$	
Jan. 0.2	2.959	131	50.07	87	41.099	300	33.32	67	9.967	195	49.75	37	55.065	108	68.96	79
10.2	2.828	125	49.20	113	40.799	288	32.65	119	9.772	181	49.38	82	54.957	104	68.17	90
20.2	2.703	113	48.07	134	40.511	266	31.46	166	9.591	159	48.56	127	54.853	95	67.27	97
30.1	2.590	95	46.73	149	40.245	228	29.80	206	9.432	133	47.29	167	54.758	79	66.30	101
Feb. 9.1	2.495	71	45.24	159	40.017	182	27.74	236	9.299	101	45.62	204	54.679	60	65.29	99
19.1	2.424	40	43.65	160	39.835	121	25.38	258	9.198	64	43.58	237	54.619	33	64.30	92
29.1	2.384	4	42.05	153	39.714	54	22.80	268	9.134	22	41.21	264	54.586	2	63.38	79
März 10.0	2.380	37	40.52	139	39.660	21	20.12	267	9.112	24	38.57	286	54.584	34	62.59	61
20.0	2.417	82	39.13	119	39.681	100	17.45	254	9.136	73	35.71	302	54.618	73	61.98	38
30.0	2.499	129	37.94	90	39.781	180	14.91	231	9.209	124	32.69	312	54.691	115	61.60	10
Apr. 9.0	2.628	175	37.04	58	39.961	257	12.60	199	9.333	176	29.57	316	54.806	158	61.50	18
18.9	2.803	219	36.46	21	40.218	328	10.61	158	9.509	226	26.41	315	54.964	198	61.68	51
28.9	3.022	259	36.25	18	40.546	391	9.03	112	9.735	274	23.26	305	55.162	235	62.19	81
Mai 8.9	3.281	294	36.43	57	40.937	443	7.91	62	10.009	317	20.21	289	55.397	269	63.00	113
18.8	3.575	322	37.00	95	41.380	484	7.29	9	10.326	352	17.32	267	55.666	295	64.13	141
28.8	3.897	340	37.95	132	41.864	511	7.20	44	10.678	380	14.65	239	55.961	314	65.54	166
Juni 7.8	4.237	351	39.27	164	42.375	523	7.64	95	11.058	399	12.26	205	56.275	327	67.20	187
17.8	4.588	353	40.91	193	42.898	523	8.59	145	11.457	408	10.21	165	56.602	329	69.07	202
27.7	4.941	344	42.84	216	43.421	509	10.04	191	11.865	406	8.56	122	56.931	323	71.09	214
Juli 7.7	5.285	329	45.00	235	43.930	482	11.95	231	12.271	392	7.34	76	57.254	311	73.23	219
17.7	5.614	306	47.35	247	44.412	446	14.26	266	12.663	369	6.58	27	57.565	290	75.42	220
27.7	5.920	275	49.82	253	44.858	399	16.92	295	13.032	336	6.31	20	57.855	262	77.62	214
Aug. 6.6	6.195	240	52.35	255	45.257	345	19.87	317	13.368	294	6.51	66	58.117	231	79.76	205
16.6	6.435	202	54.90	251	45.602	288	23.04	334	13.662	246	7.17	111	58.348	196	81.81	191
26.6	6.637	161	57.41	241	45.890	224	26.38	342	13.908	191	8.28	149	58.544	157	83.72	175
Sept. 5.5	6.798	119	59.82	228	46.114	161	29.80	344	14.099	135	9.77	182	58.701	119	85.47	155
15.5	6.917	79	62.10	212	46.275	97	33.24	340	14.234	77	11.59	208	58.820	81	87.02	133
25.5	6.996	41	64.22	190	46.372	34	36.64	328	14.311	22	13.67	223	58.901	46	88.35	111
Okt. 5.5	7.037	5	66.12	168	46.406	25	39.92	309	14.333	33	15.90	231	58.947	13	89.46	88
15.4	7.042	27	67.80	142	46.381	81	43.01	285	14.300	80	18.21	228	58.960	17	90.34	66
25.4	7.015	54	69.22	115	46.300	132	45.86	253	14.220	121	20.49	215	58.943	42	91.00	43
Nov. 4.4	6.961	79	70.37	85	46.168	179	48.39	216	14.099	155	22.64	194	58.901	63	91.43	21
14.4	6.882	97	71.22	55	45.989	219	50.55	173	13.944	181	24.58	164	58.838	81	91.64	1
24.3	6.785	113	71.77	23	45.770	252	52.28	125	13.763	199	26.22	127	58.757	93	91.65	20
Dez. 4.3	6.672	124	72.00	9	45.518	278	53.53	73	13.564	208	27.49	86	58.664	104	91.45	39
14.3	6.548	131	71.91	41	45.240	295	54.26	20	13.356	210	28.35	41	58.560	110	91.06	57
24.2	6.417	134	71.50	72	44.945	302	54.46	35	13.146	206	28.76	6	58.450	112	90.49	72
34.2	6.283		70.78		44.643		54.11		12.940		28.70		58.338		89.77	
Mittl. Ort	2.532		36.08		41.184		11.25		9.027		39.65		54.489		59.53	
sec δ, tg δ	1.139		+0.546		1.924		+1.644		1.445		−1.043		1.034		+0.263	

Mittlere Zeit Greenw.	9) ι Ceti AR.	Δ	9) ι Ceti Dekl.	Δ	10) ζ Tucanae AR.	Δ	10) ζ Tucanae Dekl.	Δ	11) β Hydri AR.	Δ	11) β Hydri Dekl.	Δ	12) α Phoenicis AR.	Δ	12) α Phoenicis Dekl.	Δ
	$0^h\ 15^m$		$-9°\ 16'$		$0^h\ 15^m$		$-65°\ 21'$		$0^h\ 21^m$		$-77°\ 43'$		$0^h\ 22^m$		$-42°\ 45'$	
Jan. 0.2	9.650 s	106	81.36 ″	52	43.38 s	40	80.07 ″	80	23.42 s	92	52.69 ″	103	9.063 s	186	53.14 ″	10
10.2	9.544	101	81.88	37	42.98	38	79.27	136	22.50	85	51.66	162	8.877	176	53.04	55
20.2	9.443	91	82.25	21	42.60	34	77.91	189	21.65	78	50.04	216	8.701	160	52.49	99
30.2	9.352	79	82.46	2	42.26	29	76.02	236	20.87	68	47.88	264	8.541	139	51.50	140
Feb. 9.1	9.273	59	82.48	17	41.97	24	73.66	276	20.19	56	45.24	306	8.402	112	50.10	178
19.1	9.214	35	82.31	39	41.73	17	70.90	311	19.63	43	42.18	338	8.290	79	48.32	211
29.1	9.179	7	81.92	61	41.56	10	67.79	337	19.20	28	38.80	363	8.211	42	46.21	242
März 10.0	9.172	27	81.31	85	41.46	2	64.42	358	18.92	14	35.17	379	8.169	1	43.79	267
20.0	9.199	64	80.46	108	41.44	5	60.84	367	18.78	2	31.38	388	8.170	48	41.12	286
30.0	9.263	102	79.38	131	41.49	14	57.17	373	18.80	17	27.50	387	8.218	97	38.26	300
Apr. 9.0	9.365	143	78.07	154	41.63	21	53.44	368	18.97	33	23.63	379	8.315	147	35.26	308
18.9	9.508	183	76.53	174	41.84	30	49.76	357	19.30	48	19.84	362	8.462	196	32.18	311
28.9	9.691	220	74.79	191	42.14	38	46.19	338	19.78	62	16.22	338	8.658	244	29.07	305
Mai 8.9	9.911	253	72.88	204	42.52	44	42.81	311	20.40	75	12.84	307	8.902	288	26.02	295
18.9	10.164	282	70.84	213	42.96	50	39.70	278	21.15	86	9.77	268	9.190	324	23.07	276
28.8	10.446	302	68.71	217	43.46	55	36.92	239	22.01	96	7.09	225	9.514	355	20.31	252
Juni 7.8	10.748	316	66.54	215	44.01	58	34.53	194	22.97	102	4.84	176	9.869	375	17.79	221
17.8	11.064	322	64.39	209	44.59	60	32.59	144	23.99	107	3.08	122	10.244	388	15.58	186
27.7	11.386	319	62.30	195	45.19	60	31.15	91	25.06	108	1.86	67	10.632	388	13.72	144
Juli 7.7	11.705	308	60.35	179	45.79	59	30.24	36	26.14	107	1.19	8	11.020	380	12.28	101
17.7	12.013	291	58.56	156	46.38	57	29.88	19	27.21	101	1.11	49	11.400	361	11.27	53
27.7	12.304	265	57.00	132	46.95	52	30.07	74	28.22	94	1.60	105	11.761	332	10.74	6
Aug. 6.6	12.569	235	55.68	104	47.47	45	30.81	126	29.16	84	2.65	157	12.093	296	10.68	41
16.6	12.804	200	54.64	75	47.92	39	32.07	172	30.00	71	4.22	204	12.389	253	11.09	86
26.6	13.004	162	53.89	45	48.31	30	33.79	214	30.71	55	6.26	244	12.642	203	11.95	127
Sept. 5.6	13.166	123	53.44	16	48.61	21	35.93	246	31.26	37	8.70	274	12.845	152	13.22	163
15.5	13.289	85	53.28	11	48.82	11	38.39	269	31.63	20	11.44	296	12.997	98	14.85	192
25.5	13.374	49	53.39	34	48.93	2	41.08	282	31.83	0	14.40	305	13.095	46	16.77	212
Okt. 5.5	13.423	14	53.73	55	48.95	7	43.90	283	31.83	19	17.45	302	13.141	5	18.89	224
15.4	13.437	17	54.28	70	48.88	16	46.73	273	31.64	36	20.47	288	13.136	50	21.13	226
25.4	13.420	42	54.98	81	48.72	24	49.46	251	31.28	53	23.35	261	13.086	91	23.39	218
Nov. 4.4	13.378	64	55.79	88	48.48	30	51.97	219	30.75	67	25.96	223	12.995	126	25.57	202
14.4	13.314	81	56.67	89	48.18	36	54.16	177	30.08	78	28.19	177	12.869	152	27.59	176
24.3	13.233	94	57.56	88	47.82	39	55.93	128	29.30	88	29.96	122	12.717	172	29.35	144
Dez. 4.3	13.139	103	58.44	82	47.43	42	57.21	74	28.42	93	31.18	62	12.545	186	30.79	107
14.3	13.036	108	59.26	73	47.01	43	57.95	17	27.49	94	31.80	1	12.359	192	31.86	64
24.3	12.928	110	59.99	61	46.58	42	58.12	43	26.55	94	31.81	63	12.167	192	32.50	20
34.2	12.818		60.60		46.16		57.69		25.61		31.18		11.975		32.70	
Mittl. Ort	8.888		82.46		42.09		66.68		21.44		38.26		8.038		44.14	
sec δ, tg δ	1.013		—0.164		2.399		—2.181		4.705		—4.597		1.362		—0.925	

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Mittlere Zeit Greenw.	13) 12 Ceti				17) ζ Cassiopejae				18) π Andromedae				20) δ Andromedae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$0^h\ 25^m$		$-4°\ 24'$		$0^h\ 32^m$		$+53°\ 26'$		$0^h\ 32^m$		$+33°\ 15'$		$0^h\ 34^m$		$+30°\ 24'$	
Jan. 0.2	45.915	106	73.94	60	17.373	248	26.76	41	24.016	145	41.60	65	50.565	137	20.77	65
10.2	45.809	102	74.54	50	17.125	248	26.35	91	23.871	146	40.95	95	50.428	138	20.12	93
20.2	45.707	96	75.04	38	16.877	236	25.44	135	23.725	139	40.00	122	50.290	133	19.19	116
30.2	45.611	84	75.42	24	16.641	214	24.09	175	23.586	125	38.78	144	50.157	119	18.03	136
Feb. 9.1	45.527	67	75.66	8	16.427	180	22.34	206	23.461	104	37.34	158	50.038	100	16.67	149
19.1	45.460	44	75.74	11	16.247	134	20.28	229	23.357	74	35.76	168	49.938	72	15.18	156
29.1	45.416	16	75.63	32	16.113	80	17.99	242	23.283	39	34.08	168	49.866	37	13.62	154
März 10.0	45.400	16	75.31	55	16.033	18	15.57	245	23.244	4	32.40	159	49.829	3	12.08	145
20.0	45.416	54	74.76	77	16.015	51	13.12	236	23.248	51	30.81	144	49.832	48	10.63	129
30.0	45.470	92	73.99	103	16.066	121	10.76	218	23.299	101	29.37	121	49.880	96	9.34	106
Apr. 9.0	45.562	134	72.96	126	16.187	191	8.58	189	23.400	151	28.16	92	49.976	146	8.28	77
18.9	45.696	174	71.70	149	16.378	258	6.69	156	23.551	200	27.24	58	50.122	194	7.51	44
28.9	45.870	211	70.21	169	16.636	320	5.13	114	23.751	247	26.66	20	50.316	238	7.07	8
Mai 8.9	46.081	247	68.52	186	16.956	372	3.99	68	23.998	285	26.46	19	50.554	277	6.99	30
18.9	46.328	275	66.66	200	17.328	416	3.31	20	24.283	320	26.65	58	50.831	311	7.29	68
28.8	46.603	298	64.66	208	17.744	447	3.11	29	24.603	344	27.23	97	51.142	336	7.97	104
Juni 7.8	46.901	312	62.58	211	18.191	466	3.40	78	24.947	360	28.20	133	51.478	351	9.01	138
17.8	47.213	320	60.47	209	18.657	474	4.18	124	25.307	367	29.53	165	51.829	359	10.39	169
27.7	47.533	318	58.38	201	19.131	470	5.42	167	25.674	364	31.18	194	52.188	357	12.08	194
Juli 7.7	47.851	309	56.37	190	19.601	453	7.09	206	26.038	353	33.12	217	52.545	346	14.02	216
17.7	48.160	293	54.47	171	20.054	427	9.15	240	26.391	332	35.29	235	52.891	327	16.18	230
27.7	48.453	269	52.76	151	20.481	392	11.55	269	26.723	307	37.64	248	53.218	302	18.48	241
Aug. 6.6	48.722	240	51.25	127	20.873	350	14.24	290	27.030	274	40.12	254	53.520	270	20.89	246
16.6	48.962	207	49.98	100	21.223	302	17.14	308	27.304	237	42.66	256	53.790	236	23.35	245
26.6	49.169	170	48.98	72	21.525	249	20.22	316	27.541	198	45.22	253	54.026	196	25.80	240
Sept. 5.6	49.339	134	48.26	45	21.774	196	23.38	321	27.739	157	47.75	244	54.222	157	28.20	230
15.5	49.473	96	47.81	18	21.970	141	26.59	317	27.896	116	50.19	231	54.379	118	30.50	217
25.5	49.569	60	47.63	6	22.111	87	29.76	309	28.012	76	52.50	215	54.497	78	32.67	199
Okt. 5.5	49.629	26	47.69	27	22.198	35	32.85	293	28.088	39	54.65	196	54.575	42	34.66	179
15.4	49.655	4	47.96	45	22.233	16	35.78	272	28.127	4	56.61	172	54.617	9	36.45	157
25.4	49.651	30	48.41	59	22.217	62	38.50	246	28.131	28	58.33	146	54.626	23	38.02	131
Nov. 4.4	49.621	53	49.00	69	22.155	107	40.96	213	28.103	56	59.79	119	54.603	50	39.33	105
14.4	49.568	71	49.69	75	22.048	144	43.09	176	28.047	82	60.98	87	54.553	75	40.38	75
24.3	49.497	85	50.44	78	21.904	180	44.85	133	27.965	103	61.85	55	54.478	96	41.13	45
Dez. 4.3	49.412	97	51.22	77	21.724	209	46.18	87	27.862	121	62.40	22	54.382	113	41.58	14
14.3	49.315	104	51.99	73	21.515	231	47.05	37	27.741	136	62.62	12	54.269	127	41.72	18
24.3	49.211	107	52.72	67	21.284	246	47.42	12	27.605	144	62.50	47	54.142	137	41.54	48
34.2	49.104		53.39		21.038		47.30		27.461		62.03		54.005		41.06	
Mittl. Ort	45.119		76.96		16.978		5.11		23.406		25.46		49.915		5.48	
sec δ, tg δ	1.003		−0.077		1.679		+1.348		1.196		+0.656		1.159		+0.587	

Mittlere Zeit Greenw.	21) α Cassiopejae AR.		21) α Cassiopejae Dekl.		22) β Ceti AR.		22) β Ceti Dekl.		23) o Cassiopejae AR.		23) o Cassiopejae Dekl.		24) 21 Cassiopejae AR.		24) 21 Cassiopejae Dekl.	
	$0^h\ 35^m$		$+56°\ 4'$		$0^h\ 39^m$		$-18°\ 26'$		$0^h\ 40^m$		$+47°\ 49'$		$0^h\ 40^m$		$+74°\ 31'$	
Jan. 0.2	44.250 s	272	58.91 "	34	23.370 s	120	52.65 "	48	2.788 s	207	49.65 "	41	4.48 s	69	70.19 "	8
10.2	43.978	273	58.57	85	23.250	119	53.13	22	2.581	209	49.24	86	3.79	70	70.27	—54
20.2	43.705	261	57.72	131	23.131	112	53.35	—3	2.372	202	48.38	127	3.09	66	69.73	112
30.2	43.444	237	56.41	173	23.019	101	53.32	30	2.170	185	47.11	162	2.43	60	68.61	167
Feb. 9.1	43.207	202	54.68	207	22.918	85	53.02	57	1.985	157	45.49	190	1.83	52	66.94	214
19.1	43.005	153	52.61	233	22.833	62	52.45	85	1.828	120	43.59	210	1.30	41	64.80	251
29.1	42.852	95	50.28	248	22.771	34	51.60	110	1.708	74	41.49	222	0.89	28	62.29	278
März 10.1	42.757	28	47.80	252	22.737	3	50.50	136	1.634	19	39.27	222	0.61	14	59.51	293
20.0	42.729	—44	45.28	246	22.734	—36	49.14	161	1.615	—40	37.05	213	0.47	—1	56.58	296
30.0	42.773	120	42.82	229	22.770	76	47.53	183	1.655	103	34.92	195	0.48	17	53.62	286
Apr. 9.0	42.893	195	40.53	202	22.846	118	45.70	203	1.758	166	32.97	168	0.65	33	50.76	266
18.9	43.088	267	38.51	169	22.964	161	43.67	219	1.924	227	31.29	134	0.98	47	48.10	236
28.9	43.355	331	36.82	128	23.125	201	41.48	231	2.151	283	29.95	96	1.45	60	45.74	197
Mai 8.9	43.686	389	35.54	82	23.326	238	39.17	239	2.434	333	28.99	52	2.05	71	43.77	151
18.9	44.075	436	34.72	33	23.564	271	36.78	241	2.767	373	28.47	6	2.76	80	42.26	100
28.8	44.511	469	34.39	—16	23.835	296	34.37	238	3.140	404	28.41	—40	3.56	86	41.26	47
Juni 7.8	44.980	491	34.55	66	24.131	315	31.99	228	3.544	424	28.81	85	4.42	91	40.79	—9
17.8	45.471	499	35.21	114	24.446	326	29.71	214	3.968	433	29.66	128	5.33	93	40.88	63
27.8	45.970	495	36.35	159	24.772	328	27.57	194	4.401	430	30.94	168	6.26	93	41.51	116
Juli 7.7	46.465	480	37.94	199	25.100	322	25.63	168	4.831	418	32.62	203	7.19	89	42.67	167
17.7	46.945	452	39.93	236	25.422	307	23.95	138	5.249	396	34.65	234	8.08	85	44.34	213
27.7	47.397	417	42.29	266	25.729	285	22.57	106	5.645	366	36.99	258	8.93	78	46.47	254
Aug. 6.6	47.814	372	44.95	290	26.014	258	21.51	71	6.011	329	39.57	278	9.71	70	49.01	290
16.6	48.186	323	47.85	309	26.272	225	20.80	36	6.340	286	42.35	291	10.41	60	51.91	320
26.6	48.509	268	50.94	321	26.497	188	20.44	—1	6.626	241	45.26	297	11.01	50	55.11	343
Sept. 5.6	48.777	212	54.15	326	26.685	150	20.45	33	6.867	192	48.23	299	11.51	40	58.54	359
15.5	48.989	153	57.41	326	26.835	110	20.78	64	7.059	144	51.22	295	11.91	27	62.13	368
25.5	49.142	96	60.67	318	26.945	71	21.42	89	7.203	96	54.17	284	12.18	16	65.81	369
Okt. 5.5	49.238	40	63.85	304	27.016	35	22.31	110	7.299	49	57.01	269	12.34	3	69.50	364
15.5	49.278	—14	66.89	284	27.051	1	23.41	124	7.348	5	59.70	249	12.37	—8	73.14	349
25.4	49.264	64	69.73	259	27.052	—28	24.65	133	7.353	—37	62.19	222	12.29	19	76.63	327
Nov. 4.4	49.200	113	72.32	226	27.024	54	25.98	134	7.316	75	64.41	192	12.10	31	79.90	297
14.4	49.087	155	74.58	189	26.970	76	27.32	130	7.241	110	66.33	157	11.79	41	82.87	259
24.3	48.932	194	76.47	146	26.894	94	28.62	119	7.131	142	67.90	118	11.38	50	85.46	214
Dez. 4.3	48.738	226	77.93	99	26.800	106	29.81	105	6.989	168	69.08	75	10.88	58	87.60	161
14.3	48.512	252	78.92	48	26.694	116	30.86	86	6.821	189	69.83	31	10.30	64	89.21	105
24.3	48.260	268	79.40	—3	26.578	122	31.72	64	6.632	203	70.14	—16	9.66	68	90.26	45
34.2	47.992		79.37		26.456		32.36		6.429		69.98		8.98		90.71	
Mittl. Ort	43.851		36.60		22.418		51.12		2.233		29.22		4.56		44.69	
sec δ, tg δ	1.792		+1.487		1.054		−0.334		1.489		+1.104		3.749		+3.613	

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Mittlere Zeit Greenw.	27) ζ Andromedae AR.		Dekl.		32) γ Cassiopejae AR.		Dekl.		33) μ Andromedae AR.		Dekl.		35) α Sculptoris AR.		Dekl.	
	0h 42m		+23° 48′		0h 51m		+60° 15′		0h 52m		+38° 2′		0h 54m		−29° 48′	
Jan. 0.2	53.707	124	50.65	64	38.18	32	67.00	7	5.863	159	56.25	43	34.636	146	45.67	42
10.2	53.583	126	50.01	85	37.86	32	66.93	61	5.704	165	55.82	80	34.490	147	46.09	6
20.2	53.457	122	49.16	102	37.54	32	66.32	111	5.539	161	55.02	111	34.343	142	46.15	31
30.2	53.335	113	48.14	116	37.22	29	65.21	158	5.378	151	53.91	138	34.201	131	45.84	66
Feb. 9.1	53.222	95	46.98	123	36.93	25	63.63	198	5.227	131	52.53	160	34.070	114	45.18	102
19.1	53.127	71	45.75	125	36.68	21	61.65	228	5.096	102	50.93	174	33.956	92	44.16	136
29.1	53.056	40	44.50	121	36.47	14	59.37	250	4.994	66	49.19	181	33.864	62	42.80	166
März 10.1	53.016	3	43.29	110	36.33	7	56.87	259	4.928	22	47.38	178	33.802	28	41.14	195
20.0	53.013	38	42.19	92	36.26	2	54.28	259	4.906	27	45.60	167	33.774	11	39.19	221
30.0	53.051	85	41.27	70	36.28	9	51.69	247	4.933	81	43.93	150	33.785	55	36.98	241
Apr. 9.0	53.136	130	40.57	42	36.37	19	49.22	225	5.014	136	42.43	123	33.840	100	34.57	259
18.9	53.266	177	40.15	11	36.56	26	46.97	195	5.150	189	41.20	92	33.940	146	31.98	270
28.9	53.443	220	40.04	22	36.82	35	45.02	156	5.339	239	40.28	55	34.086	190	29.28	278
Mai 8.9	53.663	258	40.26	56	37.17	40	43.46	114	5.578	285	39.73	17	34.276	232	26.50	279
18.9	53.921	292	40.82	90	37.57	47	42.32	65	5.863	323	39.56	23	34.508	269	23.71	273
28.8	54.213	316	41.72	121	38.04	51	41.67	16	6.186	352	39.79	64	34.777	300	20.98	262
Juni 7.8	54.529	335	42.93	150	38.55	53	41.51	35	6.538	373	40.43	103	35.077	323	18.36	243
17.8	54.864	342	44.43	175	39.08	55	41.86	84	6.911	383	41.46	138	35.400	338	15.93	220
27.8	55.206	342	46.18	194	39.63	55	42.70	131	7.294	385	42.84	172	35.738	344	13.73	190
Juli 7.7	55.548	334	48.12	210	40.18	54	44.01	176	7.679	376	44.56	199	36.082	341	11.83	155
17.7	55.882	318	50.22	220	40.72	51	45.77	215	8.055	359	46.55	222	36.423	329	10.28	117
27.7	56.200	294	52.42	224	41.23	48	47.92	249	8.414	335	48.77	240	36.752	311	9.11	75
Aug. 6.6	56.494	266	54.66	224	41.71	43	50.41	279	8.749	304	51.17	253	37.063	283	8.36	32
16.6	56.760	233	56.90	219	42.14	38	53.20	302	9.053	268	53.70	259	37.346	250	8.04	10
26.6	56.993	196	59.09	210	42.52	33	56.22	318	9.321	230	56.29	261	37.596	212	8.14	52
Sept. 5.6	57.189	160	61.19	196	42.85	26	59.40	329	9.551	188	58.90	258	37.808	171	8.66	91
15.5	57.349	122	63.15	181	43.11	20	62.69	333	9.739	147	61.48	249	37.979	128	9.57	124
25.5	57.471	85	64.96	161	43.31	14	66.02	329	9.886	105	63.97	237	38.107	86	10.81	152
Okt. 5.5	57.556	50	66.57	141	43.45	7	69.31	321	9.991	66	66.34	220	38.193	44	12.33	172
15.5	57.606	18	67.98	120	43.52	1	72.52	304	10.057	28	68.54	200	38.237	6	14.05	184
25.4	57.624	11	69.18	96	43.53	5	75.56	282	10.085	7	70.54	177	38.243	29	15.89	190
Nov. 4.4	57.613	37	70.14	72	43.48	10	78.38	253	10.078	41	72.31	149	38.214	60	17.79	185
14.4	57.576	61	70.86	47	43.38	16	80.91	216	10.037	70	73.80	118	38.154	87	19.64	173
24.3	57.515	82	71.33	22	43.22	21	83.07	175	9.967	97	74.98	86	38.067	109	21.37	154
Dez. 4.3	57.433	99	71.55	3	43.01	25	84.82	129	9.870	121	75.84	50	37.958	126	22.91	130
14.3	57.334	112	71.52	28	42.76	28	86.11	78	9.749	140	76.34	14	37.832	139	24.21	100
24.3	57.222	123	71.24	52	42.48	31	86.89	24	9.609	156	76.48	23	37.693	147	25.21	66
34.2	57.099		70.72		42.17		87.13		9.453		76.25		37.546		25.87	
Mittl. Ort	52.955		37.37		37.62		43.59		5.116		38.34		33.523		40.86	
sec δ, tg δ	1.093		+0.441		2.016		+1.750		1.270		+0.783		1.153		−0.573	

Mittlere Zeit Greenw.	36) ε Piscium AR.		36) ε Piscium Dekl.		38) β Phoenicis AR.		38) β Phoenicis Dekl.		42) β Andromedae AR.		42) β Andromedae Dekl.		45) υ Piscium AR.		45) υ Piscium Dekl.	
	0h 58m		+7° 26′		1h 2m		−47° 9′		1h 5m		+35° 10′		1h 14m		+26° 49′	
Jan. 0.3	35.840	108	25.26	65	21.498	225	75.85	23	2.294	147	49.10	38	51.686	126	36.92	43
10.2	35.732	112	24.61	68	21.273	224	76.08	27	2.147	156	48.72	70	51.560	135	36.49	67
20.2	35.620	112	23.93	67	21.049	216	75.81	77	1.991	156	48.02	99	51.425	138	35.82	87
30.2	35.508	104	23.26	65	20.833	201	75.04	123	1.835	149	47.03	125	51.287	134	34.95	105
Feb. 9.1	35.404	92	22.61	58	20.632	177	73.81	168	1.686	132	45.78	145	51.153	121	33.90	117
19.1	35.312	73	22.03	48	20.455	149	72.13	208	1.554	108	44.33	158	51.032	101	32.73	125
29.1	35.239	47	21.55	34	20.306	112	70.05	243	1.446	74	42.75	164	50.931	73	31.48	125
März 10.1	35.192	16	21.21	17	20.194	68	67.62	273	1.372	34	41.11	163	50.858	37	30.23	120
20.0	35.176	22	21.04	4	20.126	19	64.89	298	1.338	14	39.48	152	50.821	5	29.03	108
30.0	35.198	63	21.08	27	20.107	32	61.91	316	1.352	65	37.96	136	50.826	51	27.95	90
Apr. 9.0	35.261	106	21.35	52	20.139	88	58.75	329	1.417	117	36.60	112	50.877	100	27.05	66
19.0	35.367	148	21.87	79	20.227	145	55.46	333	1.534	171	35.48	82	50.977	150	26.39	39
28.9	35.515	190	22.66	104	20.372	198	52.13	332	1.705	220	34.66	48	51.127	196	26.00	8
Mai 8.9	35.705	228	23.70	129	20.570	251	48.81	323	1.925	266	34.18	12	51.323	239	25.92	25
18.9	35.933	261	24.99	151	20.821	297	45.58	306	2.191	305	34.06	25	51.562	278	26.17	57
28.8	36.194	289	26.50	170	21.118	338	42.52	283	2.496	336	34.31	64	51.840	308	26.74	90
Juni 7.8	36.483	307	28.20	184	21.456	368	39.69	253	2.832	358	34.95	100	52.148	331	27.64	120
17.8	36.790	319	30.04	195	21.824	391	37.16	216	3.190	372	35.95	133	52.479	345	28.84	147
27.8	37.109	322	31.99	199	22.215	402	35.00	174	3.562	375	37.28	164	52.824	351	30.31	170
Juli 7.7	37.431	317	33.98	200	22.617	403	33.26	128	3.937	370	38.92	190	53.175	347	32.01	188
17.7	37.748	305	35.98	193	23.020	393	31.98	77	4.307	355	40.82	211	53.522	336	33.89	203
27.7	38.053	287	37.91	184	23.413	372	31.21	27	4.662	335	42.93	226	53.858	318	35.92	211
Aug. 6.7	38.340	261	39.75	170	23.785	342	30.94	26	4.997	306	45.19	238	54.176	294	38.03	215
16.6	38.601	233	41.45	152	24.127	304	31.20	77	5.303	274	47.57	243	54.470	265	40.18	215
26.6	38.834	199	42.97	131	24.431	259	31.97	124	5.577	237	50.00	244	54.735	231	42.33	210
Sept. 5.6	39.033	166	44.28	109	24.690	207	33.21	167	5.814	200	52.44	240	54.966	197	44.43	200
15.5	39.199	130	45.37	87	24.897	154	34.88	202	6.014	159	54.84	232	55.163	160	46.43	188
25.5	39.329	96	46.24	63	25.051	97	36.90	229	6.173	120	57.16	219	55.323	124	48.31	173
Okt. 5.5	39.425	64	46.87	41	25.148	43	39.19	248	6.293	82	59.35	203	55.447	90	50.04	155
15.5	39.489	32	47.28	20	25.191	10	41.67	257	6.375	46	61.38	185	55.537	55	51.59	136
25.4	39.521	4	47.48	2	25.181	59	44.24	253	6.421	11	63.23	162	55.592	24	52.95	115
Nov. 4.4	39.525	21	47.50	14	25.122	103	46.77	240	6.432	22	64.85	136	55.616	6	54.10	93
14.4	39.504	43	47.36	29	25.019	141	49.17	218	6.410	52	66.21	110	55.610	34	55.03	70
24.4	39.461	64	47.07	41	24.878	172	51.35	186	6.358	80	67.31	79	55.576	60	55.73	45
Dez. 4.3	39.397	80	46.66	51	24.706	197	53.21	148	6.278	104	68.10	48	55.516	83	56.18	20
14.3	39.317	95	46.15	59	24.509	214	54.69	103	6.174	125	68.58	14	55.433	104	56.38	5
24.3	39.222	105	45.56	65	24.295	225	55.72	56	6.049	142	68.72	20	55.329	120	56.33	30
34.2	39.117		44.91		24.070		56.28		5.907		68.52		55.209		56.03	
Mittl. Ort	34.906		17.41		20.159		66.68		1.421		31.90		50.710		22.25	
sec δ, tg δ	1.008		+0.131		1.471		−1.079		1.223		+0.705		1.120		+0.506	

Mittlere Zeit Greenw.	47) ϑ Ceti AR.		47) ϑ Ceti Dekl.		48) δ Cassiopejae AR.		48) δ Cassiopejae Dekl.		50) η Piscium AR.		50) η Piscium Dekl.		51) 40 Cassiopejae AR.		51) 40 Cassiopejae Dekl.	
	1ʰ 19ᵐ		−8° 36′		1ʰ 20ᵐ		+59° 47′		1ʰ 26ᵐ		+14° 54′		1ʰ 31ᵐ		+72° 36′	
Jan. 0.3	50.579	111	56.86	71	19.485	298	80.39	25	60.217	109	57.94	54	47.84	56	70.38	72
10.2	50.468	118	57.57	55	19.187	315	80.64	27	60.108	120	57.40	65	47.28	60	71.10	12
20.2	50.350	121	58.12	37	18.872	319	80.37	79	59.988	124	56.75	72	46.68	61	71.22	48
30.2	50.229	117	58.49	18	18.553	306	79.58	126	59.864	123	56.03	76	46.07	59	70.74	106
Feb. 9.2	50.112	108	58.67	4	18.247	280	78.32	169	59.741	114	55.27	78	45.48	54	69.68	157
19.1	50.004	91	58.63	25	17.967	238	76.63	204	59.627	98	54.49	75	44.94	47	68.11	203
29.1	49.913	68	58.38	49	17.729	182	74.59	230	59.529	73	53.74	69	44.47	38	66.08	240
März 10.1	49.845	39	57.89	72	17.547	114	72.29	246	59.456	43	53.05	57	44.09	27	63.68	266
20.1	49.806	3	57.17	97	17.433	36	69.83	252	59.413	6	52.48	40	43.82	14	61.02	280
30.0	49.803	35	56.20	121	17.397	47	67.31	247	59.407	36	52.08	21	43.68	1	58.22	284
Apr. 9.0	49.838	78	54.99	143	17.444	132	64.84	229	59.443	82	51.87	2	43.69	14	55.38	276
19.0	49.916	121	53.56	166	17.576	216	62.53	208	59.525	127	51.89	28	43.83	28	52.62	258
28.9	50.037	164	51.90	184	17.792	296	60.45	174	59.652	171	52.17	54	44.11	42	50.04	229
Mai 8.9	50.201	204	50.06	200	18.088	368	58.71	137	59.823	214	52.71	82	44.53	53	47.75	194
18.9	50.405	239	48.06	211	18.456	431	57.34	93	60.037	250	53.53	107	45.06	64	45.81	151
28.9	50.644	270	45.95	217	18.887	480	56.41	46	60.287	281	54.60	132	45.70	73	44.30	104
Juni 7.8	50.914	293	43.78	220	19.367	518	55.95	1	60.568	305	55.92	152	46.43	79	43.26	54
17.8	51.207	309	41.58	214	19.885	541	55.96	50	60.873	320	57.44	169	47.22	83	42.72	3
27.8	51.516	317	39.44	205	20.426	550	56.46	96	61.193	329	59.13	181	48.05	86	42.69	49
Juli 7.8	51.833	317	37.39	190	20.976	548	57.42	140	61.522	328	60.94	189	48.91	86	43.18	100
17.7	52.150	308	35.49	169	21.524	531	58.82	181	61.850	319	62.83	192	49.77	84	44.18	147
27.7	52.458	294	33.80	144	22.055	505	60.63	217	62.169	305	64.75	189	50.61	80	45.65	192
Aug. 6.7	52.752	272	32.36	117	22.560	468	62.80	248	62.474	284	66.64	183	51.41	76	47.57	231
16.6	53.024	246	31.19	86	23.028	424	65.28	275	62.758	257	68.47	172	52.17	69	49.88	267
26.6	53.270	215	30.33	55	23.452	373	68.03	295	63.015	228	70.19	158	52.86	61	52.55	297
Sept. 5.6	53.485	183	29.78	23	23.825	318	70.98	308	63.243	196	71.77	141	53.47	53	55.52	320
15.6	53.668	148	29.55	8	24.143	259	74.06	317	63.439	163	73.18	123	54.00	44	58.72	337
25.5	53.816	113	29.63	36	24.402	198	77.23	319	63.602	129	74.41	102	54.44	33	62.09	348
Okt. 5.5	53.929	79	29.99	60	24.600	138	80.42	315	63.731	96	75.43	83	54.77	24	65.57	352
15.5	54.008	47	30.59	79	24.738	75	83.57	304	63.827	65	76.26	62	55.01	12	69.09	347
25.5	54.055	17	31.38	94	24.813	15	86.61	286	63.892	36	76.88	44	55.13	2	72.56	336
Nov. 4.4	54.072	11	32.32	104	24.828	44	89.47	263	63.928	7	77.32	25	55.15	10	75.92	316
14.4	54.061	35	33.36	109	24.784	103	92.10	232	63.935	20	77.57	8	55.05	19	79.08	288
24.4	54.026	58	34.45	108	24.681	156	94.42	195	63.915	44	77.65	8	54.86	30	81.96	253
Dez. 4.3	53.968	78	35.53	102	24.525	206	96.37	153	63.871	65	77.57	23	54.56	38	84.49	209
14.3	53.890	94	36.55	94	24.319	249	97.90	107	63.806	87	77.34	37	54.18	48	86.58	160
24.3	53.796	107	37.49	82	24.070	284	98.97	56	63.719	102	76.97	49	53.70	53	88.18	106
34.3	53.689		38.31		23.786		99.53		63.617		76.48		53.17		89.24	
Mittl. Ort	49.453		59.42		18.487		56.92		59.128		47.15		46.49		44.93	
sec δ, tg δ	1.011		−0.151		1.988		+1.718		1.035		+0.266		3.346		+3.193	

Mittlere Zeit Greenw.	52) υ Persei				54) α Eridani				55) 43 Cassiopejae				57) φ Persei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$1^h\ 32^m$		$+48°\ 12'$		$1^h\ 34^m$		$-57°\ 39'$		$1^h\ 36^m$		$+67°\ 37'$		$1^h\ 38^m$		$+50°\ 15'$	
Jan. 0.3	$50^s.801$	195	$31''.84$	11	$37^s.069$	326	$58''.08$	45	$7^s.30$	41	$32''.20$	63	$24^s.386$	206	$79''.04$	22
10.3	50.606	212	31.95	32	36.743	332	58.53	11	6.89	45	32.83	7	24.180	224	79.26	23
20.2	50.394	219	31.63	73	36.411	330	58.42	67	6.44	46	32.90	49	23.956	234	79.03	66
30.2	50.175	217	30.90	113	36.081	317	57.75	121	5.98	44	32.41	105	23.722	231	78.37	108
Feb. 9.2	49.958	201	29.77	147	35.764	293	56.54	172	5.54	42	31.36	153	23.491	217	77.29	143
19.1	49.757	175	28.30	174	35.471	261	54.82	217	5.12	36	29.83	197	23.274	191	75.86	173
29.1	49.582	137	26.56	194	35.210	218	52.65	258	4.76	29	27.86	231	23.083	151	74.13	196
März 10.1	49.445	89	24.62	205	34.992	168	50.07	292	4.47	20	25.55	255	22.932	102	72.17	209
20.1	49.356	32	22.57	207	34.824	109	47.15	321	4.27	11	23.00	268	22.830	43	70.08	213
30.0	49.324	30	20.50	199	34.715	45	43.94	341	4.16	0	20.32	270	22.787	20	67.95	208
Apr. 9.0	49.354	95	18.51	184	34.670	23	40.53	355	4.16	12	17.62	262	22.807	89	65.87	194
19.0	49.449	161	16.67	161	34.693	93	36.98	362	4.28	23	15.00	243	22.896	158	63.93	172
29.0	49.610	224	15.06	129	34.786	164	33.36	359	4.51	33	12.57	215	23.054	223	62.21	142
Mai 8.9	49.834	281	13.77	95	34.950	232	29.77	351	4.84	43	10.42	180	23.277	285	60.79	108
18.9	50.115	334	12.82	55	35.182	294	26.26	332	5.27	52	8.62	138	23.562	338	59.71	69
28.9	50.449	375	12.27	14	35.476	351	22.94	308	5.79	58	7.24	92	23.900	383	59.02	27
Juni 7.8	50.824	407	12.13	28	35.827	399	19.86	275	6.37	64	6.32	44	24.283	418	58.75	15
17.8	51.231	429	12.41	70	36.226	436	17.11	236	7.01	68	5.88	7	24.701	441	58.90	57
27.8	51.660	439	13.11	109	36.662	461	14.75	190	7.69	69	5.95	56	25.142	453	59.47	98
Juli 7.8	52.099	439	14.20	145	37.123	475	12.85	140	8.38	70	6.51	104	25.595	455	60.45	135
17.7	52.538	429	15.65	178	37.598	474	11.45	86	9.08	68	7.55	149	26.050	446	61.80	170
27.7	52.967	410	17.43	207	38.072	460	10.59	28	9.76	66	9.04	192	26.496	427	63.50	200
Aug. 6.7	53.377	383	19.50	230	38.532	435	10.31	28	10.42	61	10.96	228	26.923	402	65.50	226
16.7	53.760	351	21.80	249	38.967	397	10.59	85	11.03	57	13.24	263	27.325	368	67.76	247
26.6	54.111	312	24.29	262	39.364	348	11.44	138	11.60	51	15.87	289	27.693	330	70.23	262
Sept. 5.6	54.423	270	26.91	270	39.712	292	12.82	186	12.11	44	18.76	310	28.023	287	72.85	272
15.6	54.693	227	29.61	272	40.004	227	14.68	228	12.55	36	21.86	325	28.310	243	75.57	276
25.5	54.920	181	32.33	270	40.231	159	16.96	260	12.91	29	25.11	335	28.553	196	78.33	277
Okt. 5.5	55.101	136	35.03	263	40.390	89	19.56	283	13.20	21	28.46	336	28.749	149	81.10	270
15.5	55.237	90	37.66	251	40.479	18	22.39	294	13.41	12	31.82	331	28.898	101	83.80	260
25.5	55.327	45	40.17	233	40.497	49	25.33	295	13.53	4	35.13	319	28.999	54	86.40	244
Nov. 4.4	55.372	2	42.50	211	40.448	114	28.28	282	13.57	4	38.32	299	29.053	7	88.84	223
14.4	55.374	41	44.61	184	40.334	171	31.10	259	13.53	12	41.31	272	29.060	37	91.07	197
24.4	55.333	82	46.45	153	40.163	221	33.69	226	13.41	20	44.03	238	29.023	82	93.04	165
Dez. 4.4	55.251	120	47.98	117	39.942	263	35.95	184	13.21	28	46.41	196	28.941	122	94.69	130
14.3	55.131	154	49.15	78	39.679	296	37.79	136	12.93	34	48.37	148	28.819	160	95.99	90
24.3	54.977	183	49.93	36	39.383	319	39.15	82	12.59	39	49.85	96	28.659	191	96.89	47
34.3	54.794		50.29		39.064		39.97		12.20		50.81		28.468		97.36	
Mittl. Ort	49.673		10.99		35.286		47.76		5.96		7.47		23.188		57.72	
sec δ, tg δ	1.500		+1.119		1.869		−1.579		2.626		+2.428		1.564		+1.203	

Mittlere Zeit Greenw.	59) τ Ceti *)				60) o Piscium				61) Lac. ε Sculptoris				62) ζ Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	1h 40m		−16° 22′		1h 40m		+8° 44′		1h 41m		−25° 27′		1h 47m		−10° 44′	
Jan. 0.3	11.191	122	46.22	76	58.526	103	16.14	60	44.009	136	82.75	81	20.090	110	56.48	82
10.3	11.069	133	46.98	51	58.423	116	15.54	62	43.873	147	83.56	49	19.980	123	57.30	62
20.2	10.936	138	47.49	25	58.307	123	14.92	63	43.726	151	84.05	14	19.857	129	57.92	41
30.2	10.798	136	47.74	3	58.184	123	14.29	61	43.575	151	84.19	22	19.728	131	58.33	19
Feb. 9.2	10.662	128	47.71	32	58.061	118	13.68	56	43.424	142	83.97	57	19.597	125	58.52	4
19.2	10.534	114	47.39	59	57.943	103	13.12	49	43.282	126	83.40	91	19.472	113	58.48	28
29.1	10.420	92	46.80	88	57.840	83	12.63	37	43.156	105	82.49	125	19.359	92	58.20	54
März 10.1	10.328	64	45.92	115	57.757	54	12.26	23	43.051	74	81.24	155	19.267	66	57.66	79
20.1	10.264	29	44.77	142	57.703	19	12.03	6	42.977	39	79.69	185	19.201	32	56.87	104
30.0	10.235	11	43.35	167	57.684	21	11.97	15	42.938	2	77.84	209	19.169	7	55.83	128
Apr. 9.0	10.246	53	41.68	189	57.705	64	12.12	38	42.940	46	75.75	232	19.176	49	54.55	152
19.0	10.299	98	39.79	208	57.769	109	12.50	61	42.986	93	73.43	250	19.225	93	53.03	174
29.0	10.397	142	37.71	225	57.878	154	13.11	87	43.079	139	70.93	263	19.318	137	51.29	192
Mai 8.9	10.539	185	35.46	237	58.032	196	13.98	109	43.218	183	68.30	271	19.455	180	49.37	208
18.9	10.724	223	33.09	243	58.228	234	15.07	132	43.401	225	65.59	273	19.635	218	47.29	218
28.9	10.947	256	30.66	245	58.462	265	16.39	152	43.626	260	62.86	268	19.853	251	45.11	225
Juni 7.8	11.203	283	28.21	240	58.727	292	17.91	167	43.886	290	60.18	257	20.104	279	42.86	225
17.8	11.486	302	25.81	229	59.019	309	19.58	178	44.176	312	57.61	239	20.383	299	40.61	220
27.8	11.788	314	23.52	213	59.328	319	21.36	186	44.488	325	55.22	216	20.682	312	38.41	210
Juli 7.8	12.102	318	21.39	191	59.647	321	23.22	187	44.813	331	53.06	187	20.994	316	36.31	193
17.7	12.420	312	19.48	164	59.968	316	25.09	184	45.144	328	51.19	151	21.310	313	34.38	171
27.7	12.732	301	17.84	132	60.284	304	26.93	177	45.472	317	49.68	114	21.623	303	32.67	145
Aug. 6.7	13.033	282	16.52	97	60.588	285	28.70	164	45.789	298	48.54	71	21.926	285	31.22	115
16.7	13.315	257	15.55	61	60.873	261	30.34	148	46.087	274	47.83	29	22.211	263	30.07	83
26.6	13.572	228	14.94	23	61.134	234	31.82	130	46.361	244	47.54	15	22.474	236	29.24	48
Sept. 5.6	13.800	196	14.71	14	61.368	203	33.12	108	46.605	210	47.69	56	22.710	205	28.76	15
15.6	13.996	161	14.85	48	61.571	172	34.20	87	46.815	173	48.25	94	22.915	173	28.61	18
25.5	14.157	126	15.33	80	61.743	140	35.07	64	46.988	136	49.19	128	23.088	139	28.79	49
Okt. 5.5	14.283	91	16.13	106	61.883	108	35.71	42	47.124	98	50.47	155	23.227	107	29.28	75
15.5	14.374	57	17.19	126	61.991	77	36.13	23	47.222	60	52.02	175	23.334	74	30.03	96
25.5	14.431	25	18.45	140	62.068	47	36.36	4	47.282	25	53.77	187	23.408	42	30.99	113
Nov. 4.4	14.456	6	19.85	147	62.115	19	36.40	12	47.307	8	55.64	192	23.450	14	32.12	123
14.4	14.450	33	21.32	148	62.134	8	36.28	26	47.299	39	57.56	187	23.464	15	33.35	127
24.4	14.417	59	22.80	141	62.126	32	36.02	37	47.260	67	59.43	176	23.449	41	34.62	126
Dez. 4.4	14.358	81	24.21	130	62.094	56	35.65	47	47.193	92	61.19	157	23.408	64	35.88	119
14.3	14.277	102	25.51	113	62.038	78	35.18	54	47.101	113	62.76	133	23.344	85	37.07	108
24.3	14.175	117	26.64	93	61.960	96	34.64	59	46.988	130	64.09	104	23.259	104	38.15	94
34.3	14.058		27.57		61.864		34.05		46.858		65.13		23.155		39.09	
Mittl. Ort	9.935		46.42		57.336		7.35		42.668		80.28		18.804		58.77	
sec δ, tg δ	1.042		−0.294		1.012		+0.154		1.108		−0.476		1.018		−0.190	

*) Die jährliche Parallaxe (siehe Erläuterungen) ist bereits berücksichtigt.

Mittlere Zeit Greenw.	64) α Trianguli AR.	Δ	64) α Trianguli Dekl.	Δ	63) ε Cassiopejae AR.	Δ	63) ε Cassiopejae Dekl.	Δ	65) ξ Piscium AR.	Δ	65) ξ Piscium Dekl.	Δ	66) β Arietis AR.	Δ	66) β Arietis Dekl.	Δ
	$1^h\ 48^m$		+29° 10′		$1^h\ 48^m$		+63° 15′		$1^h\ 49^m$		+2° 46′		$1^h\ 49^m$		+20° 23′	
Jan. 0.3	18.540 s	122	27.76″	20	21.64 s	33	49.12″	67	13.559 s	102	30.43″	68	60.988 s	109	65.10″	38
10.3	18.418	139	27.56	46	21.31	36	49.79	13	13.457	114	29.75	63	60.879	124	64.72	53
20.2	18.279	149	27.10	68	20.95	37	49.92	41	13.343	123	29.12	57	60.755	133	64.19	67
30.2	18.130	151	26.42	88	20.58	37	49.51	92	13.220	126	28.55	49	60.622	136	63.52	78
Feb. 9.2	17.979	144	25.54	105	20.21	35	48.59	140	13.094	120	28.06	38	60.486	132	62.74	85
19.2	17.835	130	24.49	117	19.86	31	47.19	181	12.974	109	27.68	25	60.354	117	61.89	88
29.1	17.705	104	23.32	123	19.55	25	45.38	215	12.865	88	27.43	10	60.237	96	61.01	88
März 10.1	17.601	72	22.09	123	19.30	19	43.23	239	12.777	62	27.33	8	60.141	66	60.13	81
20.1	17.529	31	20.86	117	19.11	10	40.84	252	12.715	28	27.41	28	60.075	28	59.32	71
30.0	17.498	16	19.69	104	19.01	1	38.32	256	12.687	11	27.69	49	60.047	14	58.61	54
Apr. 9.0	17.514	65	18.65	85	19.00	8	35.76	248	12.698	53	28.18	72	60.061	60	58.07	35
19.0	17.579	117	17.80	63	19.08	18	33.28	231	12.751	99	28.90	96	60.121	108	57.72	11
29.0	17.696	167	17.17	35	19.26	27	30.97	205	12.850	142	29.86	118	60.229	155	57.61	15
Mai 8.9	17.863	215	16.82	6	19.53	36	28.92	172	12.992	184	31.04	139	60.384	201	57.76	43
18.9	18.078	257	16.76	25	19.89	43	27.20	133	13.176	222	32.43	158	60.585	241	58.19	70
28.9	18.335	293	17.01	57	20.32	49	25.87	90	13.398	256	34.01	173	60.826	275	58.89	96
Juni 7.9	18.628	322	17.58	87	20.81	55	24.97	43	13.654	282	35.74	185	61.101	302	59.85	119
17.8	18.950	343	18.45	115	21.36	58	24.54	3	13.936	302	37.59	191	61.403	322	61.04	142
27.8	19.293	353	19.60	139	21.94	60	24.57	51	14.238	313	39.50	192	61.725	334	62.46	159
Juli 7.8	19.646	356	20.99	161	22.54	61	25.08	97	14.551	316	41.42	189	62.059	336	64.05	171
17.7	20.002	351	22.60	178	23.15	60	26.05	140	14.867	313	43.31	180	62.395	333	65.76	181
27.7	20.353	339	24.38	189	23.75	58	27.45	180	15.180	303	45.11	167	62.728	320	67.57	184
Aug. 6.7	20.692	319	26.27	197	24.33	55	29.25	215	15.483	285	46.78	149	63.048	302	69.41	183
16.7	21.011	294	28.24	200	24.88	51	31.40	247	15.768	263	48.27	127	63.350	279	71.24	178
26.6	21.305	266	30.24	199	25.39	46	33.87	272	16.031	237	49.54	104	63.629	252	73.02	170
Sept. 5.6	21.571	233	32.23	195	25.85	41	36.59	293	16.268	207	50.58	79	63.881	222	74.72	158
15.6	21.804	200	34.18	185	26.26	34	39.52	307	16.475	177	51.37	53	64.103	190	76.30	143
25.6	22.004	166	36.03	174	26.60	28	42.59	316	16.652	144	51.90	29	64.293	158	77.73	127
Okt. 5.5	22.170	131	37.77	160	26.88	22	45.75	317	16.796	114	52.19	5	64.451	125	79.00	110
15.5	22.301	96	39.37	144	27.10	14	48.92	314	16.910	82	52.24	16	64.576	93	80.10	92
25.5	22.397	64	40.81	127	27.24	7	52.06	302	16.992	53	52.08	35	64.669	62	81.02	74
Nov. 4.4	22.461	31	42.08	108	27.31	1	55.08	284	17.045	24	51.73	47	64.731	31	81.76	55
14.4	22.492	2	43.16	86	27.32	6	57.92	260	17.069	3	51.26	60	64.762	3	82.31	38
24.4	22.490	32	44.02	65	27.26	14	60.52	228	17.066	29	50.66	66	64.765	26	82.69	21
Dez. 4.4	22.458	61	44.67	42	27.12	19	62.80	190	17.037	52	50.00	71	64.739	52	82.90	3
14.3	22.397	88	45.09	17	26.93	26	64.70	145	16.985	75	49.29	73	64.687	78	82.93	15
24.3	22.309	111	45.26	8	26.67	30	66.15	97	16.910	94	48.56	72	64.609	99	82.78	31
34.3	22.198		45.18		26.37		67.12		16.816		47.84		64.510		82.47	
Mittl. Ort	17.311		12.29		20.16		25.26		12.308		23.60		59.753		52.40	
sec δ, tg δ	1.145		+0.558		2.222		+1.985		1.001		+0.048		1.067		+0.372	

Mittlere Zeit Greenw.	67) ψ Phoenicis AR.	Δ	67) ψ Phoenicis Dekl.	Δ	68) χ Eridani AR.	Δ	68) χ Eridani Dekl.	Δ
	1h 50m		−46° 42′		1h 52m		−52° 0′	
Jan. 0.3	18.382	226	57.80	79	43.077	264	105.59	76
10.3	18.156	237	58.59	29	42.813	277	106.35	22
20.2	17.919	241	58.88	22	42.536	280	106.57	31
30.2	17.678	237	58.66	73	42.256	276	106.26	85
Feb. 9.2	17.441	225	57.93	120	41.980	260	105.41	136
19.2	17.216	204	56.73	166	41.720	238	104.05	182
29.1	17.012	174	55.07	207	41.482	204	102.23	224
März 10.1	16.838	137	53.00	244	41.278	163	99.99	262
20.1	16.701	92	50.56	275	41.115	114	97.37	292
30.0	16.609	42	47.81	300	41.001	58	94.45	319
Apr. 9.0	16.567	13	44.81	320	40.943	1	91.26	337
19.0	16.580	70	41.61	332	40.944	65	87.89	348
29.0	16.650	129	38.29	338	41.009	128	84.41	352
Mai 8.9	16.779	185	34.91	336	41.137	190	80.89	348
18.9	16.964	237	31.55	327	41.327	249	77.41	336
28.9	17.201	285	28.28	310	41.576	301	74.05	317
Juni 7.9	17.486	325	25.18	286	41.877	346	70.88	290
17.8	17.811	357	22.32	254	42.223	382	67.98	256
27.8	18.168	379	19.78	215	42.605	409	65.42	214
Juli 7.8	18.547	391	17.63	172	43.014	423	63.28	168
17.7	18.938	393	15.91	123	43.437	427	61.60	116
27.7	19.331	384	14.68	70	43.864	419	60.44	62
Aug. 6.7	19.715	366	13.98	17	44.283	399	59.82	6
16.7	20.081	338	13.81	38	44.682	371	59.76	51
26.6	20.419	302	14.19	90	45.053	332	60.27	105
Sept. 5.6	20.721	259	15.09	140	45.385	285	61.32	156
15.6	20.980	211	16.49	184	45.670	233	62.88	200
25.6	21.191	161	18.33	221	45.903	176	64.88	237
Okt. 5.5	21.352	109	20.54	248	46.079	116	67.25	265
15.5	21.461	56	23.02	267	46.195	57	69.90	282
25.5	21.517	4	25.69	273	46.252	1	72.72	288
Nov. 4.4	21.521	44	28.42	270	46.251	57	75.60	283
14.4	21.477	89	31.12	255	46.194	109	78.43	266
24.4	21.388	129	33.67	231	46.085	156	81.09	238
Dez. 4.4	21.259	165	35.98	198	45.929	195	83.47	203
14.3	21.094	194	37.96	158	45.734	229	85.50	160
24.3	20.900	217	39.54	112	45.505	254	87.10	110
34.3	20.683		40.66		45.251		88.20	
Mittl. Ort	16.748		50.06		41.319		96.87	
sec δ, tg δ	1.458		−1.062		1.625		−1.281	

Mittlere Zeit Greenw.	71) υ Ceti AR.	Δ	71) υ Ceti Dekl.	Δ	72) α Hydri AR.	Δ	72) α Hydri Dekl.	Δ
	1h 56m		−21° 28′		1h 56m		−61° 58′	
Jan. 0.3	4.215	126	64.85	92	9.46	39	52.34	68
10.3	4.089	139	65.77	62	9.07	40	53.02	10
20.2	3.950	147	66.39	30	8.67	41	53.12	49
30.2	3.803	148	66.69	3	8.26	40	52.63	105
Feb. 9.2	3.655	144	66.66	35	7.86	37	51.58	158
19.2	3.511	130	66.31	68	7.49	34	50.00	207
29.1	3.381	112	65.63	100	7.15	30	47.93	250
März 10.1	3.269	84	64.63	130	6.85	25	45.43	288
20.1	3.185	49	63.33	159	6.60	18	42.55	319
30.0	3.136	10	61.74	185	6.42	11	39.36	343
Apr. 9.0	3.126	33	59.89	209	6.31	3	35.93	359
19.0	3.159	78	57.80	229	6.28	4	32.34	367
29.0	3.237	125	55.51	244	6.32	13	28.67	368
Mai 8.9	3.362	169	53.07	255	6.45	20	24.99	361
18.9	3.531	211	50.52	260	6.65	28	21.38	345
28.9	3.742	247	47.92	260	6.93	35	17.93	322
Juni 7.9	3.989	277	45.32	253	7.28	40	14.71	290
17.8	4.266	300	42.79	239	7.68	45	11.81	251
27.8	4.566	316	40.40	220	8.13	49	9.30	206
Juli 7.8	4.882	323	38.20	194	8.62	52	7.24	156
17.7	5.205	322	36.26	164	9.14	52	5.68	101
27.7	5.527	314	34.62	128	9.66	52	4.67	42
Aug. 6.7	5.841	298	33.34	90	10.18	49	4.25	17
16.7	6.139	276	32.44	48	10.67	47	4.42	75
26.6	6.415	249	31.96	7	11.14	41	5.17	132
Sept. 5.6	6.664	218	31.89	34	11.55	36	6.49	183
15.6	6.882	184	32.23	72	11.91	28	8.32	228
25.6	7.066	149	32.95	106	12.19	22	10.60	265
Okt. 5.5	7.215	113	34.01	134	12.41	13	13.25	291
15.5	7.328	78	35.35	157	12.54	5	16.16	307
25.5	7.406	43	36.92	173	12.59	3	19.23	310
Nov. 4.4	7.449	11	38.65	179	12.56	11	22.33	301
14.4	7.460	20	40.44	178	12.45	17	25.34	280
24.4	7.440	48	42.22	171	12.28	24	28.14	249
Dez. 4.4	7.392	75	43.93	156	12.04	30	30.63	208
14.3	7.317	98	45.49	136	11.74	34	32.71	160
24.3	7.219	118	46.85	111	11.40	38	34.31	106
34.3	7.101		47.96		11.02		35.37	
Mittl. Ort	2.827		63.90		7.35		42.11	
sec δ, tg δ	1.075		−0.394		2.129		−1.879	

Mittlere Zeit Greenw.	70) 50 Cassiopejae AR.		70) Dekl.		73) γ Andromedae AR.		73) Dekl.		74) α Arietis AR.		74) Dekl.		75) β Trianguli AR.		75) Dekl.	
	$1^h\ 56^m$		+72° 0′		$1^h\ 58^m$		+41° 55′		$2^h\ 2^m$		+23° 3′		$2^h\ 4^m$		+34° 35′	
	s		″		s		″		s		″		s		″	
Jan. 0.3	15.90	52	81.06	100	45.533	154	56.75	19	27.359	108	70.41	28	33.745	128	42.85	3
10.3	15.38	56	82.06	42	45.379	175	56.94	18	27.251	126	70.13	46	33.617	149	42.88	27
20.3	14.82	59	82.48	17	45.204	189	56.76	54	27.125	137	69.67	61	33.468	162	42.61	54
30.2	14.23	58	82.31	75	45.015	194	56.22	87	26.988	143	69.06	75	33.306	169	42.07	80
Feb. 9.2	13.65	55	81.56	129	44.821	187	55.35	116	26.845	141	68.31	85	33.137	165	41.27	103
19.2	13.10	50	80.27	177	44.634	169	54.19	141	26.704	128	67.46	92	32.972	151	40.24	121
29.1	12.60	42	78.50	217	44.465	141	52.78	160	26.576	107	66.54	94	32.821	127	39.03	134
März 10.1	12.18	32	76.33	249	44.324	103	51.18	170	26.469	79	65.60	92	32.694	94	37.69	139
20.1	11.86	19	73.84	269	44.221	55	49.48	173	26.390	41	64.68	83	32.600	51	36.30	139
30.1	11.67	7	71.15	278	44.166	0	47.75	168	26.349	1	63.85	69	32.549	4	34.91	131
Apr. 9.0	11.60	7	68.37	276	44.166	57	46.07	156	26.350	49	63.16	52	32.545	50	33.60	117
19.0	11.67	21	65.61	264	44.223	118	44.51	135	26.399	98	62.64	30	32.595	104	32.43	97
29.0	11.88	34	62.97	241	44.341	177	43.16	110	26.497	146	62.34	5	32.699	158	31.46	71
Mai 9.0	12.22	46	60.56	211	44.518	232	42.06	79	26.643	193	62.29	23	32.857	209	30.75	43
18.9	12.68	57	58.45	173	44.750	283	41.27	45	26.836	235	62.52	49	33.066	256	30.32	12
28.9	13.25	67	56.72	129	45.033	325	40.82	9	27.071	271	63.01	77	33.322	297	30.20	20
Juni 7.9	13.92	74	55.43	83	45.358	359	40.73	27	27.342	302	63.78	102	33.619	329	30.40	53
17.8	14.66	79	54.60	34	45.717	385	41.00	63	27.644	322	64.80	125	33.948	352	30.93	84
27.8	15.45	83	54.26	17	46.102	399	41.63	98	27.966	336	66.05	144	34.300	367	31.77	112
Juli 7.8	16.28	84	54.43	66	46.501	405	42.61	129	28.302	342	67.49	160	34.667	374	32.89	139
17.8	17.12	84	55.09	114	46.906	400	43.90	157	28.644	339	69.09	172	35.041	371	34.28	159
27.7	17.96	82	56.23	159	47.306	389	45.47	181	28.983	329	70.81	178	35.412	361	35.87	178
Aug. 6.7	18.78	77	57.82	201	47.695	370	47.28	201	29.312	313	72.59	180	35.773	343	37.65	190
16.7	19.55	73	59.83	238	48.065	343	49.29	216	29.625	292	74.39	178	36.116	321	39.55	200
26.6	20.28	66	62.21	270	48.408	312	51.45	227	29.917	265	76.17	172	36.437	293	41.55	204
Sept. 5.6	20.94	58	64.91	296	48.720	278	53.72	232	30.182	236	77.89	163	36.730	262	43.59	205
15.6	21.52	50	67.87	317	48.998	241	56.04	233	30.418	206	79.52	151	36.992	228	45.64	201
25.6	22.02	41	71.04	333	49.239	203	58.37	232	30.624	174	81.03	137	37.220	193	47.65	194
Okt. 5.5	22.43	32	74.37	339	49.442	163	60.69	224	30.798	141	82.40	121	37.413	158	49.59	185
15.5	22.75	21	77.76	341	49.605	123	62.93	213	30.939	109	83.61	105	37.571	122	51.44	172
25.5	22.96	10	81.17	335	49.728	83	65.06	199	31.048	77	84.66	88	37.693	87	53.16	157
Nov. 4.5	23.06	0	84.52	319	49.811	43	67.05	181	31.125	46	85.54	71	37.780	51	54.73	139
14.4	23.06	11	87.71	298	49.854	3	68.86	159	31.171	15	86.25	53	37.831	15	56.12	119
24.4	22.95	21	90.69	267	49.857	35	70.45	134	31.186	15	86.78	35	37.846	20	57.31	98
Dez. 4.4	22.74	31	93.36	228	49.822	73	71.79	105	31.171	44	87.13	17	37.826	53	58.29	73
14.3	22.43	41	95.64	184	49.749	108	72.84	72	31.127	72	87.30	1	37.773	85	59.02	46
24.3	22.02	47	97.48	132	49.641	139	73.56	38	31.055	96	87.29	19	37.688	115	59.48	18
34.3	21.55		98.80		49.502		73.94		30.959		87.10		37.573		59.66	
Mittl. Ort	13.96		56.04		44.173		37.73		26.037		56.88		32.373		25.90	
sec δ, tg δ	3.239		+3.080		1.344		+0.898		1.087		+0.426		1.215		+0.690	

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Mittlere Zeit Greenw.	76) 55 Cassiopejae AR.	Δ	76) 55 Cassiopejae Dekl.	Δ	78) Lac. μ Fornacis AR.	Δ	78) Lac. μ Fornacis Dekl.	Δ	80) 67 Ceti AR.	Δ	80) 67 Ceti Dekl.	Δ	85) ξ² Ceti AR.	Δ	85) ξ² Ceti Dekl.	Δ
	$2^h 7^m$		+66° 7′		$2^h 9^m$		−31° 6′		$2^h 12^m$		−6° 48′		$2^h 23^m$		+8° 5′	
Jan. 0.3	54.19	35	77.25	97	14.093	149	66.36	104	48.951	100	27.69	87	42.874	91	11.56	59
10.3	53.84	40	78.22	43	13.944	164	67.40	66	48.851	118	28.56	71	42.783	111	10.97	59
20.3	53.44	42	78.65	12	13.780	174	68.06	26	48.733	130	29.27	54	42.672	126	10.38	58
30.2	53.02	43	78.53	66	13.606	177	68.32	15	48.603	136	29.81	35	42.546	135	9.80	55
Feb. 9.2	52.59	41	77.87	117	13.429	174	68.17	57	48.467	134	30.16	14	42.411	136	9.25	49
19.2	52.18	38	76.70	163	13.255	161	67.60	95	48.333	126	30.30	7	42.275	129	8.76	42
29.2	51.80	32	75.07	202	13.094	141	66.65	133	48.207	109	30.23	29	42.146	113	8.34	32
März 10.1	51.48	25	73.05	230	12.953	113	65.32	168	48.098	85	29.94	53	42.033	90	8.02	19
20.1	51.23	16	70.75	251	12.840	77	63.64	200	48.013	54	29.41	76	41.943	58	7.83	3
30.1	51.07	7	68.24	260	12.763	37	61.64	228	47.959	16	28.65	101	41.885	20	7.80	15
Apr. 9.0	51.00	4	65.64	258	12.726	9	59.36	252	47.943	25	27.64	124	41.865	22	7.95	35
19.0	51.04	15	63.06	246	12.735	57	56.84	271	47.968	70	26.40	146	41.887	67	8.30	56
29.0	51.19	26	60.60	226	12.792	106	54.13	285	48.038	114	24.94	167	41.954	114	8.86	79
Mai 9.0	51.45	35	58.34	197	12.898	155	51.28	293	48.152	158	23.27	184	42.068	157	9.65	100
18.9	51.80	44	56.37	162	13.053	200	48.35	294	48.310	199	21.43	198	42.225	200	10.65	121
28.9	52.24	51	54.75	121	13.253	241	45.41	289	48.509	234	19.45	207	42.425	236	11.86	139
Juni 7.9	52.75	58	53.54	76	13.494	276	42.52	276	48.743	264	17.38	212	42.661	267	13.25	154
17.8	53.33	62	52.78	30	13.770	303	39.76	256	49.007	288	15.26	211	42.928	290	14.79	165
27.8	53.95	65	52.48	17	14.073	324	37.20	231	49.295	303	13.15	205	43.218	308	16.44	172
Juli 7.8	54.60	67	52.65	64	14.397	334	34.89	197	49.598	311	11.10	193	43.526	316	18.16	173
17.8	55.27	67	53.29	108	14.731	337	32.92	160	49.909	313	9.17	176	43.842	317	19.89	171
27.7	55.94	65	54.37	151	15.068	332	31.32	118	50.222	306	7.41	154	44.159	312	21.60	163
Aug. 6.7	56.59	62	55.88	189	15.400	318	30.14	72	50.528	292	5.87	127	44.471	300	23.23	151
16.7	57.21	59	57.77	224	15.718	298	29.42	24	50.820	274	4.60	98	44.771	283	24.74	135
26.7	57.80	55	60.01	253	16.016	271	29.18	23	51.094	251	3.62	66	45.054	261	26.09	117
Sept. 5.6	58.35	48	62.54	278	16.287	240	29.41	70	51.345	224	2.96	33	45.315	236	27.26	95
15.6	58.83	42	65.32	297	16.527	204	30.11	114	51.569	194	2.63	2	45.551	209	28.21	73
25.6	59.25	36	68.29	310	16.731	166	31.25	150	51.763	164	2.61	28	45.760	180	28.94	50
Okt. 5.6	59.61	28	71.39	317	16.897	127	32.75	183	51.927	133	2.89	56	45.940	150	29.44	29
15.5	59.89	20	74.56	319	17.024	88	34.58	206	52.060	101	3.45	78	46.090	121	29.73	9
25.5	60.09	13	77.75	312	17.112	49	36.64	221	52.161	71	4.23	96	46.211	90	29.82	9
Nov. 4.5	60.22	5	80.87	298	17.161	11	38.85	226	52.232	41	5.19	109	46.301	61	29.73	23
14.4	60.27	3	83.85	279	17.172	24	41.11	223	52.273	11	6.28	116	46.362	31	29.50	36
24.4	60.24	12	86.64	250	17.148	57	43.34	210	52.284	16	7.44	119	46.393	3	29.14	46
Dez. 4.4	60.12	19	89.14	215	17.091	88	45.44	190	52.268	44	8.63	115	46.396	26	28.68	53
14.4	59.93	26	91.29	174	17.003	116	47.34	163	52.224	68	9.78	108	46.370	54	28.15	57
24.3	59.67	32	93.03	126	16.887	139	48.97	129	52.156	91	10.86	97	46.316	80	27.58	61
34.3	59.35		94.29		16.748		50.26		52.065		11.83		46.236		26.97	
Mittl. Ort	52.29		53.32		12.563		62.96		47.547		31.60		41.433		2.84	
sec δ, tg δ	2.471		+2.260		1.168		−0.604		1.007		−0.119		1.010		+0.142	

Mittlere Zeit Greenw.	87) 36 H. Cassiopej. AR.		87) Dekl.		90) μ Hydri AR.		90) Dekl.		89) ν Arietis AR.		89) Dekl.		91) δ Ceti AR.		91) Dekl.	
	2h 29m		+72° 27′		2h 33m		−79° 27′		2h 34m		+21° 35′		2h 35m		−0° 1′	
Jan. 0.3	63.74	48	31.01	140	30.15	117	103.72	93	4.087	93	68.55	21	12.016	89	53.60	80
10.3	63.26	54	32.41	85	28.98	123	104.65	32	3.994	117	68.34	34	11.927	110	54.40	70
20.3	62.72	59	33.26	28	27.75	126	104.97	28	3.877	135	68.00	48	11.817	126	55.10	60
30.2	62.13	61	33.54	30	26.49	125	104.69	87	3.742	147	67.52	59	11.691	137	55.70	48
Feb. 9.2	61.52	60	33.24	87	25.24	121	103.82	144	3.595	149	66.93	69	11.554	140	56.18	33
19.2	60.92	56	32.37	139	24.03	114	102.38	196	3.446	144	66.24	75	11.414	134	56.51	18
29.2	60.36	50	30.98	184	22.89	105	100.42	242	3.302	129	65.49	78	11.280	122	56.69	2
März 10.1	59.86	40	29.14	222	21.84	92	98.00	282	3.173	103	64.71	76	11.158	99	56.71	18
20.1	59.46	30	26.92	251	20.92	78	95.18	315	3.070	70	63.95	70	11.059	70	56.53	37
30.1	59.16	17	24.41	268	20.14	61	92.03	340	3.000	30	63.25	60	10.989	33	56.16	59
Apr. 9.1	58.99	3	21.73	275	19.53	43	88.63	359	2.970	16	62.65	45	10.956	7	55.57	80
19.0	58.96	11	18.98	270	19.10	25	85.04	370	2.986	64	62.20	27	10.963	51	54.77	103
29.0	59.07	25	16.28	257	18.85	4	81.34	371	3.050	113	61.93	5	11.014	97	53.74	123
Mai 9.0	59.32	39	13.71	234	18.81	14	77.63	366	3.163	161	61.88	19	11.111	141	52.51	144
19.0	59.71	50	11.37	203	18.95	34	73.97	352	3.324	206	62.07	43	11.252	183	51.07	160
28.9	60.21	62	9.34	166	19.29	53	70.45	329	3.530	245	62.50	67	11.435	221	49.47	173
Juni 7.9	60.83	70	7.68	124	19.82	69	67.16	299	3.775	279	63.17	89	11.656	253	47.74	184
17.9	61.53	77	6.44	79	20.51	84	64.17	261	4.054	305	64.06	111	11.909	278	45.90	189
27.8	62.30	83	5.65	31	21.35	97	61.56	218	4.359	323	65.17	128	12.187	296	44.01	188
Juli 7.8	63.13	86	5.34	17	22.32	107	59.38	166	4.682	334	66.45	142	12.483	309	42.13	184
17.8	63.99	88	5.51	64	23.39	114	57.72	111	5.016	336	67.87	152	12.792	311	40.29	173
27.8	64.87	86	6.15	110	24.53	117	56.61	52	5.352	332	69.39	158	13.103	308	38.56	158
Aug. 6.7	65.73	85	7.25	153	25.70	117	56.09	8	5.684	322	70.97	160	13.411	299	36.98	138
16.7	66.58	80	8.78	193	26.87	112	56.17	69	6.006	304	72.57	157	13.710	283	35.60	115
26.7	67.38	75	10.71	229	27.99	104	56.86	129	6.310	284	74.14	150	13.993	263	34.45	89
Sept. 5.6	68.13	69	13.00	260	29.03	93	58.15	183	6.594	259	75.64	142	14.256	240	33.56	60
15.6	68.82	62	15.60	286	29.96	78	59.98	232	6.853	232	77.06	130	14.496	213	32.96	33
25.6	69.44	52	18.46	306	30.74	60	62.30	272	7.085	203	78.36	117	14.709	186	32.63	5
Okt. 5.6	69.96	44	21.52	321	31.34	41	65.02	304	7.288	173	79.53	102	14.895	156	32.58	20
15.5	70.40	34	24.73	329	31.75	18	68.06	322	7.461	142	80.55	88	15.051	127	32.78	42
25.5	70.74	22	28.02	329	31.93	3	71.28	330	7.603	111	81.43	72	15.178	97	33.20	61
Nov. 4.5	70.96	12	31.31	323	31.90	25	74.58	323	7.714	79	82.15	57	15.275	67	33.81	75
14.5	71.08	0	34.54	308	31.65	47	77.81	306	7.793	48	82.72	43	15.342	37	34.56	86
24.4	71.08	11	37.62	285	31.18	67	80.87	276	7.841	15	83.15	29	15.379	8	35.42	91
Dez. 4.4	70.97	23	40.47	254	30.51	85	83.63	235	7.856	18	83.44	14	15.387	22	36.33	93
14.4	70.74	33	43.01	215	29.66	100	85.98	186	7.838	49	83.58	0	15.365	50	37.26	90
24.3	70.41	43	45.16	169	28.66	111	87.84	132	7.789	78	83.58	14	15.315	76	38.16	86
34.3	69.98		46.85		27.55		89.16		7.711		83.44		15.239		39.02	
Mittl. Ort	60.94		6.91		25.27		93.59		2.559		55.75		10.510		59.81	
sec δ, tg δ	3.317		+3.162		5.475		−5.383		1.075		+0.396		1.000		−0.001	

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Mittlere Zeit Greenw.	93) ϑ Persei AR.		Dekl.		97) π Ceti AR.		Dekl.		98) μ Ceti AR.		Dekl.		100) 41 Arietis AR.		Dekl.	
	2h 38m		+48° 52′		2h 40m		−14° 12′		2h 40m		+9° 45′		2h 45m		+26° 54′	
Jan. 0.3	29.068	157	45.94	71	9.011	100	47.95	110	25.453	84	45.55	54	3.732	93	68.11	0
10.3	28.911	193	46.65	33	8.911	123	49.05	87	25.369	107	45.01	56	3.639	120	68.11	19
20.3	28.718	218	46.98	7	8.788	139	49.92	62	25.262	125	44.45	55	3.519	142	67.92	36
30.2	28.500	234	46.91	47	8.649	150	50.54	34	25.137	137	43.90	54	3.377	156	67.56	54
Feb. 9.2	28.266	237	46.44	85	8.499	152	50.88	7	25.000	142	43.36	50	3.221	160	67.02	69
19.2	28.029	226	45.59	118	8.347	148	50.95	22	24.858	137	42.86	45	3.061	157	66.33	82
29.2	27.803	202	44.41	148	8.199	135	50.73	50	24.721	124	42.41	37	2.904	142	65.51	90
März 10.1	27.601	165	42.93	169	8.064	113	50.23	79	24.597	101	42.04	26	2.762	117	64.61	94
20.1	27.436	116	41.24	183	7.951	84	49.44	106	24.496	72	41.78	12	2.645	83	63.67	93
30.1	27.320	60	39.41	190	7.867	48	48.38	133	24.424	35	41.66	5	2.562	42	62.74	86
Apr. 9.1	27.260	6	37.51	187	7.819	8	47.05	158	24.389	7	41.71	23	2.520	5	61.88	76
19.0	27.266	72	35.64	178	7.811	37	45.47	181	24.396	52	41.94	43	2.525	55	61.12	59
29.0	27.338	141	33.86	159	7.848	83	43.66	201	24.448	99	42.37	64	2.580	107	60.53	40
Mai 9.0	27.479	206	32.27	136	7.931	128	41.65	216	24.547	144	43.01	86	2.687	156	60.13	17
18.9	27.685	267	30.91	107	8.059	171	39.49	228	24.691	188	43.87	106	2.843	204	59.96	8
28.9	27.952	320	29.84	74	8.230	210	37.21	235	24.879	225	44.93	124	3.047	246	60.04	33
Juni 7.9	28.272	367	29.10	40	8.440	244	34.86	236	25.104	258	46.17	140	3.293	282	60.37	58
17.9	28.639	402	28.70	3	8.684	272	32.50	231	25.362	285	47.57	153	3.575	310	60.95	81
27.8	29.041	427	28.67	34	8.956	293	30.19	219	25.647	303	49.10	161	3.885	332	61.76	103
Juli 7.8	29.468	444	29.01	68	9.249	306	28.00	202	25.950	315	50.71	164	4.217	343	62.79	121
17.8	29.912	449	29.69	101	9.555	311	25.98	180	26.265	318	52.35	163	4.560	349	64.00	136
27.8	30.361	445	30.70	132	9.866	310	24.18	151	26.583	315	53.98	157	4.909	345	65.36	147
Aug. 6.7	30.806	432	32.02	159	10.176	302	22.67	119	26.898	307	55.55	148	5.254	337	66.83	154
16.7	31.238	413	33.61	182	10.478	287	21.48	82	27.205	291	57.03	133	5.591	321	68.37	157
26.7	31.651	386	35.43	200	10.765	267	20.66	45	27.496	272	58.36	116	5.912	301	69.94	156
Sept. 5.6	32.037	356	37.43	216	11.032	245	20.21	7	27.768	249	59.52	97	6.213	277	71.50	152
15.6	32.393	320	39.59	226	11.277	217	20.14	32	28.017	224	60.49	76	6.490	251	73.02	146
25.6	32.713	282	41.85	233	11.494	187	20.46	66	28.241	197	61.25	54	6.741	223	74.48	136
Okt. 5.6	32.995	241	44.18	235	11.681	157	21.12	98	28.438	168	61.79	34	6.964	192	75.84	126
15.5	33.236	198	46.53	234	11.838	126	22.10	124	28.606	139	62.13	15	7.156	160	77.10	114
25.5	33.434	152	48.87	226	11.964	93	23.34	144	28.745	109	62.28	3	7.316	129	78.24	101
Nov. 4.5	33.586	105	51.13	217	12.057	62	24.78	157	28.854	79	62.25	17	7.445	96	79.25	88
14.5	33.691	58	53.30	200	12.119	29	26.35	163	28.933	49	62.08	30	7.541	61	80.13	74
24.4	33.749	7	55.30	180	12.148	2	27.98	163	28.982	18	61.78	39	7.602	27	80.87	59
Dez. 4.4	33.756	42	57.10	156	12.146	32	29.61	155	29.000	12	61.39	46	7.629	9	81.46	42
14.4	33.714	90	58.66	126	12.114	61	31.16	143	28.988	42	60.93	52	7.620	44	81.88	27
24.3	33.624	134	59.92	91	12.053	88	32.59	125	28.946	70	60.41	55	7.576	76	82.15	9
34.3	33.490		60.83		11.965		33.84		28.876		59.86		7.500		82.24	
Mittl. Ort	27.236		26.12		7.446		49.95		23.918		36.36		2.105		53.96	
sec δ, tg δ	1.520		+1.145		1.032		−0.253		1.015		+0.172		1.121		+0.508	

Mittlere Zeit Greenw.	101) β Fornacis AR.		101) β Fornacis Dekl.		102) τ² Eridani AR.		102) τ² Eridani Dekl.		103) τ Persei AR.		103) τ Persei Dekl.		104) η Eridani AR.		104) η Eridani Dekl.	
	$2^h 45^m$		$-32° 44'$		$2^h 47^m$		$-21° 20'$		$2^h 48^m$		$+52° 25'$		$2^h 52^m$		$-9° 13'$	
Jan. 0.3	36.193	143	92.32	138	15.311	111	59.33	127	19.560	169	30.63	91	20.970	89	51.21	106
10.3	36.050	166	93.70	99	15.200	134	60.60	96	19.391	209	31.54	52	20.881	113	52.27	88
20.3	35.884	184	94.69	57	15.066	152	61.56	65	19.182	240	32.06	9	20.768	133	53.15	68
30.2	35.700	194	95.26	13	14.914	163	62.21	30	18.942	259	32.15	33	20.635	145	53.83	45
Feb. 9.2	35.506	196	95.39	29	14.751	167	62.51	4	18.683	265	31.82	74	20.490	150	54.28	22
19.2	35.310	191	95.10	72	14.584	163	62.47	38	18.418	255	31.08	112	20.340	148	54.50	3
29.2	35.119	175	94.38	113	14.421	150	62.09	73	18.163	231	29.96	145	20.192	137	54.47	28
März 10.1	34.944	152	93.25	151	14.271	129	61.36	105	17.932	193	28.51	171	20.055	117	54.19	53
20.1	34.792	120	91.74	186	14.142	99	60.31	136	17.739	143	26.80	189	19.938	89	53.66	77
30.1	34.672	81	89.88	218	14.043	64	58.95	165	17.596	81	24.91	200	19.849	55	52.89	103
Apr. 9.1	34.591	36	87.70	246	13.979	22	57.30	192	17.515	14	22.91	201	19.794	15	51.86	128
19.0	34.555	12	85.24	268	13.957	24	55.38	216	17.501	58	20.90	194	19.779	29	50.58	150
29.0	34.567	62	82.56	286	13.981	70	53.22	234	17.559	132	18.96	179	19.808	74	49.08	170
Mai 9.0	34.629	113	79.70	297	14.051	117	50.88	249	17.691	202	17.17	158	19.882	119	47.38	188
18.9	34.742	162	76.73	301	14.168	161	48.39	259	17.893	269	15.59	131	20.001	162	45.50	202
28.9	34.904	206	73.72	299	14.329	203	45.80	261	18.162	327	14.28	99	20.163	202	43.48	212
Juni 7.9	35.110	247	70.73	290	14.532	240	43.19	259	18.489	379	13.29	64	20.365	237	41.36	216
17.9	35.357	280	67.83	273	14.772	269	40.60	250	18.868	419	12.65	27	20.602	264	39.20	215
27.8	35.637	306	65.10	248	15.041	292	38.10	233	19.287	448	12.38	11	20.866	287	37.05	209
Juli 7.8	35.943	324	62.62	218	15.333	307	35.77	211	19.735	468	12.49	47	21.153	301	34.96	196
17.8	36.267	334	60.44	181	15.640	316	33.66	183	20.203	476	12.96	82	21.454	308	33.00	178
27.8	36.601	336	58.63	138	15.956	316	31.83	148	20.679	475	13.78	115	21.762	307	31.22	154
Aug. 6.7	36.937	330	57.25	92	16.272	309	30.35	110	21.154	465	14.93	145	22.069	301	29.68	127
16.7	37.267	315	56.33	42	16.581	296	29.25	69	21.619	446	16.38	171	22.370	289	28.41	94
26.7	37.582	295	55.91	8	16.877	277	28.56	25	22.065	421	18.09	195	22.659	272	27.47	61
Sept. 5.7	37.877	269	55.99	58	17.154	253	28.31	18	22.486	390	20.04	212	22.931	250	26.86	26
15.6	38.146	238	56.57	106	17.407	226	28.49	61	22.876	353	22.16	227	23.181	224	26.60	10
25.6	38.384	205	57.63	149	17.633	196	29.10	99	23.229	314	24.43	238	23.405	198	26.70	42
Okt. 5.6	38.589	166	59.12	185	17.829	164	30.09	134	23.543	271	26.81	243	23.603	169	27.12	73
15.5	38.755	129	60.97	215	17.993	130	31.43	162	23.814	225	29.24	245	23.772	139	27.85	99
25.5	38.884	89	63.12	234	18.123	97	33.05	183	24.039	177	31.69	241	23.911	109	28.84	119
Nov. 4.5	38.973	49	65.46	246	18.220	63	34.88	196	24.216	125	34.10	233	24.020	78	30.03	134
14.5	39.022	11	67.92	247	18.283	28	36.84	200	24.341	71	36.43	219	24.098	46	31.37	142
24.4	39.033	28	70.39	238	18.311	5	38.84	197	24.412	17	38.62	201	24.144	15	32.79	144
Dez. 4.4	39.005	63	72.77	220	18.306	38	40.81	186	24.429	38	40.63	177	24.159	17	34.23	141
14.4	38.942	98	74.97	195	18.268	69	42.67	168	24.391	92	42.40	147	24.142	46	35.64	132
24.4	38.844	129	76.92	163	18.199	97	44.35	146	24.299	143	43.87	113	24.096	76	36.96	119
34.3	38.715		78.55		18.102		45.81		24.156		45.00		24.020		38.15	
Mittl. Ort	34.472		89.51		13.677		59.47		17.542		10.41		19.365		54.79	
sec δ, tg δ	1.189		−0.643		1.074		−0.391		1.640		+1.299		1.013		−0.163	

Mittlere Zeit Greenw.	105) 47 H. Cephei AR.		Dekl.		106) ϑ Eridani AR.		Dekl.		107) α Ceti AR.		Dekl.		108) γ Persei AR.		Dekl.	
	$2^h\ 54^m$		$+79°\ 5'$		$2^h\ 55^m$		$-40°\ 37'$		$2^h\ 57^m$		$+3°\ 45'$		$2^h\ 58^m$		$+53°\ 10'$	
Jan. 0.3	56.58	75	42.12	186	6.346	171	90.88	153	54.797	77	46.36	73	44.317	163	62.10	103
10.3	55.83	87	43.98	132	6.175	199	92.41	109	54.720	102	45.63	68	44.154	208	63.13	64
20.3	54.96	97	45.30	74	5.976	218	93.50	61	54.618	124	44.95	60	43.946	241	63.77	21
30.3	53.99	101	46.04	13	5.758	230	94.11	12	54.494	138	44.35	51	43.705	264	63.98	21
Feb. 9.2	52.98	103	46.17	48	5.528	234	94.23	37	54.356	145	43.84	42	43.441	273	63.77	63
19.2	51.95	98	45.69	106	5.294	228	93.86	83	54.211	144	43.42	29	43.168	266	63.14	102
29.2	50.97	89	44.63	159	5.066	213	93.03	128	54.067	133	43.13	16	42.902	245	62.12	137
März 10.1	50.08	76	43.04	205	4.853	187	91.75	171	53.934	115	42.97	1	42.657	208	60.75	164
20.1	49.32	60	40.99	241	4.666	154	90.04	208	53.819	87	42.96	16	42.449	158	59.11	185
30.1	48.72	41	38.58	269	4.512	113	87.96	243	53.732	52	43.12	34	42.291	98	57.26	198
Apr. 9.1	48.31	21	35.89	284	4.399	66	85.53	271	53.680	13	43.46	55	42.193	30	55.28	202
19.0	48.10	2	33.05	289	4.333	13	82.82	293	53.667	32	44.01	75	42.163	42	53.26	198
29.0	48.12	24	30.16	284	4.320	41	79.89	311	53.699	78	44.76	96	42.205	117	51.28	185
Mai 9.0	48.36	44	27.32	267	4.361	97	76.78	322	53.777	123	45.72	115	42.322	190	49.43	166
19.0	48.80	65	24.65	244	4.458	150	73.56	326	53.900	166	46.87	134	42.512	258	47.77	140
28.9	49.45	83	22.21	211	4.608	200	70.30	320	54.066	205	48.21	148	42.770	320	46.37	111
Juni 7.9	50.28	99	20.10	173	4.808	245	67.10	307	54.271	240	49.69	161	43.090	373	45.26	77
17.9	51.27	112	18.37	130	5.053	284	64.03	288	54.511	268	51.30	169	43.463	416	44.49	41
27.9	52.39	122	17.07	84	5.337	315	61.15	259	54.779	289	52.99	172	43.879	449	44.08	4
Juli 7.8	53.61	129	16.23	36	5.652	338	58.56	225	55.068	303	54.71	171	44.328	471	44.04	32
17.8	54.90	134	15.87	13	5.990	353	56.31	183	55.371	310	56.42	164	44.799	482	44.36	67
27.8	56.24	135	16.00	61	6.343	357	54.48	136	55.681	311	58.06	154	45.281	484	45.03	101
Aug. 6.7	57.59	134	16.61	108	6.700	353	53.12	85	55.992	304	59.60	137	45.765	476	46.04	131
16.7	58.93	130	17.69	153	7.053	342	52.27	32	56.296	292	60.97	118	46.241	460	47.35	159
26.7	60.23	124	19.22	194	7.395	322	51.95	24	56.588	275	62.15	96	46.701	436	48.94	183
Sept. 5.7	61.47	116	21.16	231	7.717	294	52.19	78	56.863	256	63.11	71	47.137	407	50.77	203
15.6	62.63	105	23.47	265	8.011	263	52.97	129	57.119	231	63.82	45	47.544	372	52.80	218
25.6	63.68	93	26.12	292	8.274	225	54.26	175	57.350	206	64.27	20	47.916	334	54.98	231
Okt. 5.6	64.61	78	29.04	315	8.499	184	56.01	215	57.556	180	64.47	4	48.250	292	57.29	238
15.6	65.39	63	32.19	331	8.683	141	58.16	246	57.736	151	64.43	25	48.542	245	59.67	242
25.5	66.02	46	35.50	339	8.824	96	60.62	267	57.887	122	64.18	44	48.787	197	62.09	240
Nov. 4.5	66.48	28	38.89	340	8.920	50	63.29	278	58.009	93	63.74	59	48.984	144	64.49	234
14.5	66.76	9	42.29	333	8.970	6	66.07	278	58.102	61	63.15	70	49.128	90	66.83	223
24.4	66.85	11	45.62	317	8.976	38	68.85	267	58.163	31	62.45	76	49.218	33	69.06	207
Dez. 4.4	66.74	31	48.79	291	8.938	80	71.52	247	58.194	1	61.69	80	49.251	25	71.13	184
14.4	66.43	48	51.70	257	8.858	120	73.99	217	58.193	33	60.89	81	49.226	81	72.97	157
24.4	65.95	66	54.27	215	8.738	155	76.16	181	58.160	62	60.08	78	49.145	135	74.54	123
34.3	65.29		56.42		8.583		77.97		58.098		59.30		49.010		75.77	
Mittl. Ort	51.68		18.45		4.479		86.61		53.178		39.01		42.163		42.15	
sec δ, tg δ	5.283		+5.187		1.318		−0.858		1.002		+0.066		1.668		+1.336	

Mittlere Zeit Greenw.	109) ρ Persei AR.		Dekl.		110) μ Horologii AR.		Dekl.		111) β Persei AR.		Dekl.		114) δ Arietis AR.		Dekl.	
	2h 59m		+38° 30′		3h 1m		−60° 3′		3h 2m		+40° 37′		3h 6m		+19° 24′	
Jan. 0.3	49.117	104	72.98	49	40.31	33	55.12	159	43.735	108	75.52	59	51.056	74	46.88	20
10.3	49.013	139	73.47	21	39.98	37	56.71	106	43.627	144	76.11	29	50.982	103	46.68	30
20.3	48.874	167	73.68	— 8	39.61	39	57.77	49	43.483	173	76.40	— 1	50.879	127	46.38	38
30.3	48.707	185	73.60	37	39.22	41	58.26	— 9	43.310	193	76.39	32	50.752	145	46.00	47
Feb. 9.2	48.522	194	73.23	64	38.81	41	58.17	65	43.117	202	76.07	61	50.607	153	45.53	53
19.2	48.328	191	72.59	89	38.40	40	57.52	120	42.915	200	75.46	89	50.454	155	45.00	59
29.2	48.137	176	71.70	110	38.00	38	56.32	170	42.715	185	74.57	112	50.299	144	44.41	60
März 10.2	47.961	150	70.60	126	37.62	34	54.62	217	42.530	159	73.45	130	50.155	124	43.81	60
20.1	47.811	113	69.34	135	37.28	28	52.45	257	42.371	120	72.15	142	50.031	96	43.21	54
30.1	47.698	67	67.99	139	37.00	23	49.88	292	42.251	74	70.73	146	49.935	59	42.67	46
Apr. 9.1	47.631	14	66.60	135	36.77	17	46.96	320	42.177	19	69.27	145	49.876	16	42.21	34
19.0	47.617	— 42	65.25	125	36.60	9	43.76	342	42.158	— 38	67.82	136	49.860	— 30	41.87	18
29.0	47.659	100	64.00	110	36.51	1	40.34	356	42.196	99	66.46	121	49.890	80	41.69	— 1
Mai 9.0	47.759	158	62.90	89	36.50	— 7	36.78	361	42.295	157	65.25	102	49.970	127	41.70	21
19.0	47.917	211	62.01	64	36.57	14	33.17	359	42.452	213	64.23	78	50.097	174	41.91	41
28.9	48.128	260	61.37	38	36.71	22	29.58	348	42.665	263	63.45	50	50.271	215	42.32	63
Juni 7.9	48.388	303	60.99	9	36.93	29	26.10	329	42.928	307	62.95	21	50.486	253	42.95	82
17.9	48.691	336	60.90	— 20	37.22	34	22.81	301	43.235	342	62.74	— 9	50.739	282	43.77	100
27.9	49.027	362	61.10	49	37.56	40	19.80	265	43.577	369	62.83	38	51.021	305	44.77	115
Juli 7.8	49.389	378	61.59	75	37.96	44	17.15	223	43.946	387	63.21	66	51.326	321	45.92	127
17.8	49.767	387	62.34	100	38.40	47	14.92	173	44.333	396	63.87	92	51.647	328	47.19	135
27.8	50.154	388	63.34	121	38.87	48	13.19	118	44.729	397	64.79	115	51.975	330	48.54	138
Aug. 6.7	50.542	380	64.55	139	39.35	49	12.01	59	45.126	391	65.94	136	52.305	324	49.92	138
16.7	50.922	366	65.94	154	39.84	47	11.42	— 2	45.517	377	67.30	152	52.629	313	51.30	135
26.7	51.288	347	67.48	165	40.31	45	11.44	62	45.894	358	68.82	164	52.942	297	52.65	127
Sept. 5.7	51.635	324	69.13	172	40.76	41	12.06	123	46.252	334	70.46	175	53.239	278	53.92	117
15.6	51.959	296	70.85	176	41.17	37	13.29	177	46.586	307	72.21	180	53.517	255	55.09	104
25.6	52.255	266	72.61	177	41.54	31	15.06	227	46.893	276	74.01	183	53.772	230	56.13	91
Okt. 5.6	52.521	234	74.38	175	41.85	24	17.33	268	47.169	243	75.84	184	54.002	203	57.04	77
15.6	52.755	199	76.13	170	42.09	18	20.01	299	47.412	208	77.68	180	54.205	174	57.81	62
25.5	52.954	163	77.83	164	42.27	10	23.00	319	47.620	171	79.48	174	54.379	145	58.43	49
Nov. 4.5	53.117	124	79.47	154	42.37	2	26.19	326	47.791	130	81.22	166	54.524	114	58.92	36
14.5	53.241	84	81.01	141	42.39	— 5	29.45	322	47.921	89	82.88	153	54.638	81	59.28	24
24.4	53.325	42	82.42	126	42.34	12	32.67	305	48.010	45	84.41	139	54.719	48	59.52	13
Dez. 4.4	53.367	0	83.68	108	42.22	19	35.72	277	48.055	1	85.80	120	54.767	13	59.65	3
14.4	53.367	42	84.76	87	42.03	25	38.49	239	48.056	— 43	87.00	99	54.780	— 23	59.68	— 7
24.4	53.325	84	85.63	63	41.78	31	40.88	194	48.013	86	87.99	73	54.757	56	59.61	16
34.3	53.241		86.26		41.47		42.82		47.927		88.72		54.701		59.45	
Mittl. Ort	47.267		56.23		37.85		47.89		41.830		58.37		49.340		35.22	
sec δ, tg δ	1.278		+0.796		2.004		−1.737		1.318		+0.858		1.060		+0.352	

Mittlere Zeit Greenw.	117) 12 Eridani AR.		117) 12 Eridani Dekl.		115) 48 H. Cephei AR.		115) 48 H. Cephei Dekl.		120) α Persei AR.		120) α Persei Dekl.		121) o Tauri AR.		121) o Tauri Dekl.	
	3h 8m		−29° 18′		3h 9m		+77° 25′		3h 18m		+49° 33′		3h 20m		+8° 44′	
Jan. 0.4	31.885	121	65.02	153	41.54	59	63.12	196	21.298	124	65.78	103	19.177	64	10.85	58
10.3	31.764	148	66.55	117	40.95	71	65.08	144	21.174	171	66.81	69	19.113	94	10.27	57
20.3	31.616	171	67.72	78	40.24	81	66.52	89	21.003	208	67.50	33	19.019	119	9.70	55
30.3	31.445	185	68.50	37	39.43	86	67.41	29	20.795	235	67.83	7	18.900	138	9.15	50
Feb. 9.2	31.260	193	68.87	4	38.57	88	67.70	30	20.560	249	67.76	44	18.762	149	8.65	45
19.2	31.067	191	68.83	45	37.69	86	67.40	88	20.311	249	67.32	81	18.613	151	8.20	38
29.2	30.876	181	68.38	85	36.83	79	66.52	142	20.062	235	66.51	113	18.462	145	7.82	30
März 10.2	30.695	161	67.53	123	36.04	70	65.10	189	19.827	206	65.38	141	18.317	129	7.52	20
20.1	30.534	133	66.30	159	35.34	57	63.21	228	19.621	164	63.97	162	18.188	103	7.32	7
30.1	30.401	97	64.71	192	34.77	40	60.93	256	19.457	112	62.35	176	18.085	70	7.25	7
Apr. 9.1	30.304	56	62.79	221	34.37	22	58.37	276	19.345	50	60.59	181	18.015	31	7.32	24
19.1	30.248	9	60.58	246	34.15	4	55.61	283	19.295	16	58.78	180	17.984	13	7.56	42
29.0	30.239	40	58.12	266	34.11	15	52.78	281	19.311	85	56.98	170	17.997	59	7.98	61
Mai 9.0	30.279	90	55.46	281	34.26	34	49.97	269	19.396	153	55.28	155	18.056	106	8.59	80
19.0	30.369	138	52.65	289	34.60	53	47.28	247	19.549	219	53.73	133	18.162	150	9.39	99
28.9	30.507	183	49.76	291	35.13	69	44.81	219	19.768	278	52.40	107	18.312	192	10.38	115
Juni 7.9	30.690	224	46.85	286	35.82	83	42.62	183	20.046	331	51.33	77	18.504	227	11.53	129
17.9	30.914	259	43.99	274	36.65	95	40.79	144	20.377	374	50.56	45	18.731	259	12.82	140
27.9	31.173	287	41.25	254	37.60	105	39.35	99	20.751	409	50.11	12	18.990	282	14.22	148
Juli 7.8	31.460	307	38.71	227	38.65	113	38.36	52	21.160	433	49.99	20	19.272	300	15.70	150
17.8	31.767	321	36.44	195	39.78	117	37.84	6	21.593	448	50.19	52	19.572	309	17.20	149
27.8	32.088	326	34.49	155	40.95	119	37.78	41	22.041	454	50.71	82	19.881	313	18.69	143
Aug. 6.8	32.414	324	32.94	111	42.14	119	38.19	88	22.495	450	51.53	110	20.194	310	20.12	132
16.7	32.738	314	31.83	65	43.33	117	39.07	131	22.945	439	52.63	135	20.504	301	21.44	118
26.7	33.052	299	31.18	15	44.50	112	40.38	174	23.384	421	53.98	156	20.805	288	22.62	100
Sept. 5.7	33.351	277	31.03	34	45.62	106	42.12	210	23.805	398	55.54	175	21.093	271	23.62	80
15.6	33.628	251	31.37	82	46.68	97	44.22	245	24.203	369	57.29	189	21.364	250	24.42	59
25.6	33.879	221	32.19	127	47.65	88	46.67	274	24.572	337	59.18	201	21.614	228	25.01	37
Okt. 5.6	34.100	189	33.46	166	48.53	75	49.41	298	24.909	299	61.19	209	21.842	203	25.38	16
15.6	34.289	153	35.12	197	49.28	63	52.39	316	25.208	260	63.28	213	22.045	176	25.54	4
25.5	34.442	116	37.09	221	49.91	48	55.55	327	25.468	216	65.41	213	22.221	148	25.50	20
Nov. 4.5	34.558	79	39.30	237	50.39	32	58.82	331	25.684	170	67.54	209	22.369	118	25.30	34
14.5	34.637	41	41.67	241	50.71	16	62.13	327	25.854	119	69.63	202	22.487	87	24.96	46
24.4	34.678	3	44.08	238	50.87	1	65.40	314	25.973	66	71.65	189	22.574	55	24.50	54
Dez. 4.4	34.681	34	46.46	224	50.86	19	68.54	292	26.039	12	73.54	170	22.629	21	23.96	58
14.4	34.647	71	48.70	203	50.67	35	71.46	261	26.051	44	75.24	149	22.650	13	23.38	61
24.4	34.576	105	50.73	175	50.32	51	74.07	222	26.007	96	76.73	120	22.637	47	22.77	61
34.3	34.471		52.48		49.81		76.29		25.911		77.93		22.590		22.16	
Mittl. Ort	30.100		63.64		36.71		40.37		19.056		47.39		17.438		2.29	
sec δ, tg δ	1.147		−0.561		4.594		+4.484		1.542		+1.173		1.012		+0.154	

Mittlere Zeit Greenw.	122) 2 H. Camelop. AR.		Dekl.		125) *f* Tauri AR.		Dekl.		127) ε Eridani*) AR.		Dekl.		131) δ Persei AR.		Dekl.	
	$3^h 22^m$		+59° 38′		$3^h 26^m$		+12° 38′		$3^h 28^m$		−9° 44′		$3^h 36^m$		+47° 31′	
Jan. 0.4	17.983	181	75.51	146	15.753	60	67.78	44	60.076	76	27.62	122	58.582	98	28.96	107
10.3	17.802	239	76.97	105	15.693	91	67.34	46	60.000	105	28.84	102	58.484	146	30.03	76
20.3	17.563	287	78.02	61	15.602	118	66.88	46	59.895	130	29.86	81	58.338	187	30.79	43
30.3	17.276	322	78.63	15	15.484	139	66.42	47	59.765	149	30.67	56	58.151	218	31.22	8
Feb. 9.3	16.954	338	78.78	33	15.345	151	65.95	45	59.616	159	31.23	32	57.933	236	31.30	27
19.2	16.616	338	78.45	78	15.194	155	65.50	43	59.457	163	31.55	6	57.697	242	31.03	63
29.2	16.278	320	77.67	120	15.039	148	65.07	39	59.294	157	31.61	19	57.455	234	30.40	94
März 10.2	15.958	282	76.47	156	14.891	133	64.68	32	59.137	142	31.42	46	57.221	210	29.46	121
20.2	15.676	229	74.91	185	14.758	108	64.36	23	58.995	117	30.96	71	57.011	174	28.25	144
30.1	15.447	162	73.06	207	14.650	74	64.13	11	58.878	86	30.25	97	56.837	127	26.81	158
Apr. 9.1	15.285	86	70.99	219	14.576	35	64.02	1	58.792	48	29.28	121	56.710	69	25.23	167
19.1	15.199	1	68.80	223	14.541	9	64.03	19	58.744	6	28.07	145	56.641	8	23.56	167
29.0	15.198	85	66.57	218	14.550	56	64.22	37	58.738	40	26.62	165	56.633	59	21.89	162
Mai 9.0	15.283	171	64.39	204	14.606	104	64.59	56	58.778	85	24.97	183	56.692	125	20.27	148
19.0	15.454	254	62.35	184	14.710	148	65.15	74	58.863	130	23.14	198	56.817	188	18.79	131
29.0	15.708	329	60.51	158	14.858	191	65.89	91	58.993	171	21.16	208	57.005	248	17.48	108
Juni 7.9	16.037	395	58.93	127	15.049	227	66.80	107	59.164	209	19.08	213	57.253	300	16.40	82
17.9	16.432	453	57.66	92	15.276	260	67.87	121	59.373	241	16.95	213	57.553	347	15.58	53
27.9	16.885	497	56.74	55	15.536	284	69.08	130	59.614	266	14.82	208	57.900	382	15.05	24
Juli 7.8	17.382	530	56.19	18	15.820	302	70.38	137	59.880	285	12.74	196	58.282	410	14.81	7
17.8	17.912	551	56.01	21	16.122	313	71.75	138	60.165	297	10.78	179	58.692	428	14.88	36
27.8	18.463	561	56.22	57	16.435	316	73.13	135	60.462	303	8.99	155	59.120	436	15.24	63
Aug. 6.8	19.024	560	56.79	93	16.751	315	74.48	129	60.765	301	7.44	127	59.556	437	15.87	90
16.7	19.584	548	57.72	126	17.066	307	75.77	119	61.066	294	6.17	96	59.993	431	16.77	112
26.7	20.132	529	58.98	157	17.373	295	76.96	105	61.360	282	5.21	61	60.424	417	17.89	133
Sept. 5.7	20.661	501	60.55	182	17.668	278	78.01	88	61.642	266	4.60	24	60.841	398	19.22	151
15.7	21.162	466	62.37	206	17.946	258	78.89	71	61.908	245	4.36	12	61.239	373	20.73	164
25.6	21.628	425	64.43	226	18.204	236	79.60	52	62.153	221	4.48	47	61.612	346	22.37	176
Okt. 5.6	22.053	379	66.69	241	18.440	212	80.12	34	62.374	196	4.95	80	61.958	313	24.13	185
15.6	22.432	327	69.10	251	18.652	186	80.46	16	62.570	169	5.75	108	62.271	276	25.98	190
25.5	22.759	270	71.61	257	18.838	158	80.62	2	62.739	139	6.83	130	62.547	237	27.88	192
Nov. 4.5	23.029	208	74.18	258	18.996	127	80.64	12	62.878	108	8.13	147	62.784	193	29.80	191
14.5	23.237	142	76.76	252	19.123	97	80.52	23	62.986	76	9.60	157	62.977	145	31.71	186
24.5	23.379	71	79.28	241	19.220	63	80.29	31	63.062	43	11.17	160	63.122	95	33.57	176
Dez. 4.4	23.450	1	81.69	223	19.283	28	79.98	37	63.105	8	12.77	157	63.217	40	35.33	163
14.4	23.449	74	83.92	197	19.311	7	79.61	42	63.113	26	14.34	149	63.257	15	36.96	145
24.4	23.375	143	85.89	166	19.304	42	79.19	45	63.087	58	15.83	134	63.242	68	38.41	121
34.4	23.232		87.55		19.262		78.74		63.029		17.17		63.174		39.62	
Mittl. Ort	15.279		55.58		13.970		58.27		58.327		31.20		56.234		11.87	
sec δ, tg δ	1.979		+1.708		1.025		+0.224		1.015		−0.172		1.481		+1.092	

*) Die jährliche Parallaxe (siehe Erläuterungen) ist bereits berücksichtigt.

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	134) ν Persei				138) 5 H. Camelop.				139) η Tauri				141) β Reticuli			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$3^h 39^m$		+42° 18′		$3^h 41^m$		+71° 4′		$3^h 42^m$		+23° 50′		$3^h 43^m$		−65° 3′	
Jan. 0.4	31.120	81	66.95	86	32.22	30	50.05	203	31.230	52	58.32	4	11.49	37	81.88	211
10.3	31.039	125	67.81	60	31.92	39	52.08	160	31.178	89	58.36	6	11.12	44	83.99	159
20.3	30.914	163	68.41	31	31.53	47	53.68	111	31.089	121	58.30	17	10.68	47	85.58	103
30.3	30.751	193	68.72	0	31.06	53	54.79	59	30.968	145	58.13	28	10.21	51	86.61	46
Feb. 9.3	30.558	210	68.72	29	30.53	56	55.38	3	30.823	162	57.85	40	9.70	52	87.07	12
19.2	30.348	218	68.43	59	29.97	57	55.41	51	30.661	169	57.45	49	9.18	53	86.95	69
29.2	30.130	211	67.84	86	29.40	55	54.90	103	30.492	165	56.96	56	8.65	51	86.26	122
März 10.2	29.919	190	66.98	108	28.85	50	53.87	150	30.327	151	56.40	62	8.14	47	85.04	173
20.1	29.729	158	65.90	127	28.35	42	52.37	190	30.176	125	55.78	64	7.67	43	83.31	219
30.1	29.571	115	64.63	138	27.93	33	50.47	222	30.051	91	55.14	61	7.24	37	81.12	259
Apr. 9.1	29.456	64	63.25	143	27.60	22	48.25	245	29.960	50	54.53	55	6.87	29	78.53	294
19.1	29.392	6	61.82	142	27.38	8	45.80	259	29.910	4	53.98	45	6.58	22	75.59	322
29.0	29.386	54	60.40	135	27.30	3	43.21	261	29.906	45	53.53	32	6.36	13	72.37	342
Mai 9.0	29.440	116	59.05	121	27.33	18	40.60	256	29.951	96	53.21	16	6.23	4	68.95	355
19.0	29.556	174	57.84	104	27.51	30	38.04	242	30.047	145	53.05	2	6.19	5	65.40	360
29.0	29.730	229	56.80	81	27.81	41	35.62	219	30.192	190	53.07	21	6.24	14	61.80	356
Juni 7.9	29.959	278	55.99	57	28.22	53	33.43	190	30.382	231	53.28	40	6.38	23	58.24	343
17.9	30.237	320	55.42	31	28.75	61	31.53	157	30.613	265	53.68	58	6.61	31	54.81	323
27.9	30.557	353	55.11	4	29.36	70	29.96	119	30.878	293	54.26	75	6.92	39	51.58	292
Juli 7.8	30.910	379	55.07	23	30.06	75	28.77	79	31.171	315	55.01	88	7.31	44	48.66	254
17.8	31.289	395	55.30	49	30.81	80	27.98	37	31.486	328	55.89	100	7.75	49	46.12	208
27.8	31.684	404	55.79	72	31.61	83	27.61	6	31.814	335	56.89	107	8.24	53	44.04	156
Aug. 6.8	32.088	404	56.51	93	32.44	84	27.67	48	32.149	335	57.96	111	8.77	55	42.48	99
16.7	32.492	398	57.44	112	33.28	83	28.15	89	32.484	330	59.07	113	9.32	55	41.49	38
26.7	32.890	386	58.56	127	34.11	81	29.04	128	32.814	320	60.20	109	9.87	55	41.11	25
Sept. 5.7	33.276	369	59.83	140	34.92	78	30.32	164	33.134	305	61.29	105	10.42	52	41.36	88
15.7	33.645	346	61.23	150	35.70	73	31.96	197	33.439	287	62.34	98	10.94	47	42.24	149
25.6	33.991	321	62.73	158	36.43	68	33.93	226	33.726	266	63.32	89	11.41	42	43.73	204
Okt. 5.6	34.312	292	64.31	162	37.11	61	36.19	252	33.992	242	64.21	80	11.83	36	45.77	252
15.6	34.604	259	65.93	165	37.72	54	38.71	272	34.234	216	65.01	70	12.19	28	48.29	292
25.5	34.863	223	67.58	164	38.26	44	41.43	287	34.450	188	65.71	60	12.47	19	51.21	320
Nov. 4.5	35.086	184	69.22	161	38.70	34	44.30	297	34.638	156	66.31	51	12.66	10	54.41	338
14.5	35.270	140	70.83	156	39.04	24	47.27	296	34.794	123	66.82	43	12.76	1	57.79	342
24.5	35.410	95	72.39	147	39.28	12	50.23	291	34.917	87	67.25	34	12.77	8	61.21	333
Dez. 4.4	35.505	46	73.86	134	39.40	1	53.14	278	35.004	48	67.59	26	12.69	17	64.54	314
14.4	35.551	4	75.20	118	39.41	12	55.92	256	35.052	9	67.85	18	12.52	26	67.68	282
24.4	35.547	54	76.38	98	39.29	23	58.48	223	35.061	31	68.03	8	12.26	33	70.50	241
34.4	35.493		77.36		39.06		60.71		35.030		68.11		11.93		72.91	
Mittl. Ort	28.892		50.99		28.08		29.85		29.281		46.46		8.49		76.23	
sec δ, tg δ	1.352		+0.910		3.083		+2.917		1.093		+0.442		2.373		−2.151	

Mittlere Zeit Greenw.	140) τ⁶ Eridani				143) *g* Eridani				146) γ Hydri				144) ζ Persei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$3^h\ 43^m$		−23° 29′		$3^h\ 46^m$		−36° 26′		$3^h\ 48^m$		−74° 29′		$3^h\ 48^m$		+31° 38′	
Jan. 0.4	15.852 s	88	49.03 "	171	20.633 s	123	76.49 "	199	35.83 s	65	54.29 "	208	52.962 s	55	19.73 "	41
10.3	15.764	120	50.74	141	20.510	159	78.48	161	35.18	75	56.37	156	52.907	94	20.14	25
20.3	15.644	148	52.15	108	20.351	190	80.09	118	34.43	82	57.93	100	52.813	129	20.39	7
30.3	15.496	169	53.23	71	20.161	213	81.27	72	33.61	86	58.93	42	52.684	158	20.46	12
Feb. 9.3	15.327	184	53.94	35	19.948	227	81.99	26	32.75	88	59.35	17	52.526	176	20.34	31
19.2	15.143	189	54.29	3	19.721	232	82.25	21	31.87	88	59.18	73	52.350	185	20.03	49
29.2	14.954	185	54.26	41	19.489	227	82.04	67	30.99	86	58.45	127	52.165	181	19.54	65
März 10.2	14.769	172	53.85	76	19.262	212	81.37	110	30.13	80	57.18	177	51.984	167	18.89	79
20.2	14.597	148	53.09	112	19.050	187	80.27	152	29.33	73	55.41	223	51.817	139	18.10	87
30.1	14.449	119	51.97	144	18.863	154	78.75	189	28.60	64	53.18	262	51.678	105	17.23	92
Apr. 9.1	14.330	80	50.53	174	18.709	113	76.86	223	27.96	54	50.56	296	51.573	61	16.31	92
19.1	14.250	37	48.79	202	18.596	66	74.63	253	27.42	41	47.60	322	51.512	10	15.39	87
29.0	14.213	8	46.77	224	18.530	16	72.10	276	27.01	29	44.38	343	51.502	41	14.52	77
Mai 9.0	14.221	57	44.53	244	18.514	37	69.34	294	26.72	15	40.95	354	51.543	95	13.75	63
19.0	14.278	104	42.09	256	18.551	90	66.40	306	26.57	1	37.41	359	51.638	148	13.12	46
29.0	14.382	148	39.53	264	18.641	140	63.34	310	26.56	13	33.82	354	51.786	196	12.66	26
Juni 7.9	14.530	191	36.89	265	18.781	187	60.24	307	26.69	27	30.28	340	51.982	240	12.40	6
17.9	14.721	226	34.24	260	18.968	229	57.17	295	26.96	40	26.88	318	52.222	277	12.34	15
27.9	14.947	257	31.64	246	19.197	266	54.22	276	27.36	51	23.70	288	52.499	309	12.49	35
Juli 7.9	15.204	281	29.18	227	19.463	294	51.46	249	27.87	62	20.82	249	52.808	331	12.84	55
17.8	15.485	298	26.91	200	19.757	317	48.97	215	28.49	70	18.33	203	53.139	348	13.39	71
27.8	15.783	309	24.91	167	20.074	330	46.82	173	29.19	77	16.30	151	53.487	356	14.10	86
Aug. 6.8	16.092	311	23.24	129	20.404	337	45.09	127	29.96	81	14.79	93	53.843	357	14.96	97
16.7	16.403	308	21.95	87	20.741	335	43.82	77	30.77	82	13.86	32	54.200	353	15.93	106
26.7	16.711	299	21.08	41	21.076	327	43.05	22	31.59	81	13.54	31	54.553	344	16.99	111
Sept. 5.7	17.010	284	20.67	7	21.403	311	42.83	33	32.40	78	13.85	94	54.897	329	18.10	114
15.7	17.294	265	20.74	53	21.714	289	43.16	86	33.18	72	14.79	153	55.226	311	19.24	115
25.6	17.559	241	21.27	97	22.003	263	44.02	138	33.90	63	16.32	209	55.537	290	20.39	113
Okt. 5.6	17.800	215	22.24	138	22.266	232	45.40	183	34.53	53	18.41	258	55.827	265	21.52	110
15.6	18.015	186	23.62	173	22.498	196	47.23	223	35.06	40	20.99	296	56.092	239	22.62	106
25.6	18.201	153	25.35	201	22.694	158	49.46	252	35.46	27	23.95	324	56.331	208	23.68	101
Nov. 4.5	18.354	120	27.36	220	22.852	117	51.98	274	35.73	12	27.19	340	56.539	175	24.69	96
14.5	18.474	83	29.56	231	22.969	74	54.72	283	35.85	4	30.59	343	56.714	138	25.65	89
24.5	18.557	46	31.87	233	23.043	29	57.55	283	35.81	18	34.02	335	56.852	100	26.54	81
Dez. 4.4	18.603	8	34.20	226	23.072	15	60.38	271	35.63	34	37.37	314	56.952	57	27.35	72
14.4	18.611	31	36.46	212	23.057	59	63.09	252	35.29	47	40.51	281	57.009	13	28.07	61
24.4	18.580	67	38.58	189	22.998	101	65.61	223	34.82	58	43.32	240	57.022	30	28.68	49
34.4	18.513		40.47		22.897		67.84		34.24		45.72		56.992		29.17	
Mittl. Ort	13.982		49.76		18.627		74.76		31.56		48.36		50.878		6.38	
sec δ, tg δ	1.090		−0.435		1.243		−0.739		3.741		−3.605		1.175		+0.616	

Mittlere Zeit Greenw.	145) 9 H. Camelop. AR.		Dekl.		147) ε Persei AR.		Dekl.		148) ξ Persei AR.		Dekl.		149) γ Eridani AR.		Dekl.	
	$3^h\ 49^m$		+60° 51′		$3^h\ 52^m$		+39° 46′		$3^h\ 53^m$		+35° 33′		$3^h\ 54^m$		−13° 44′	
Jan. 0.4	60.91 s	15	68.81″	171	14.980 s	63	20.27″	80	32.811 s	55	15.45″	61	8.426 s	62	45.57″	149
10.4	60.76	22	70.52	134	14.917	108	21.07	58	32.756	97	16.06	42	8.364	95	47.06	126
20.3	60.54	27	71.86	93	14.809	148	21.65	33	32.659	136	16.48	21	8.269	125	48.32	101
30.3	60.27	33	72.79	48	14.661	178	21.98	6	32.523	166	16.69	1	8.144	148	49.33	73
Feb. 9.3	59.94	35	73.27	0	14.483	200	22.04	22	32.357	186	16.68	25	7.996	165	50.06	45
19.2	59.59	36	73.27	45	14.283	210	21.82	48	32.171	195	16.43	46	7.831	172	50.51	15
29.2	59.23	35	72.82	91	14.073	206	21.34	73	31.976	193	15.97	67	7.659	171	50.66	14
März 10.2	58.88	33	71.91	130	13.867	189	20.61	94	31.783	178	15.30	85	7.488	160	50.52	44
20.2	58.55	27	70.61	165	13.678	160	19.67	110	31.605	151	14.45	97	7.328	139	50.08	73
30.1	58.28	21	68.96	191	13.518	122	18.57	123	31.454	114	13.48	106	7.189	111	49.35	100
Apr. 9.1	58.07	14	67.05	211	13.396	73	17.34	128	31.340	69	12.42	109	7.078	75	48.35	128
19.1	57.93	5	64.94	221	13.323	19	16.06	128	31.271	18	11.33	106	7.003	34	47.07	153
29.0	57.88	3	62.73	222	13.304	39	14.78	121	31.253	37	10.27	99	6.969	10	45.54	175
Mai 9.0	57.91	13	60.51	216	13.343	98	13.57	110	31.290	93	9.28	86	6.979	56	43.79	195
19.0	58.04	21	58.35	202	13.441	155	12.47	94	31.383	148	8.42	70	7.035	101	41.84	210
29.0	58.25	29	56.33	181	13.596	208	11.53	74	31.531	198	7.72	52	7.136	145	39.74	220
Juni 7.9	58.54	37	54.52	156	13.804	258	10.79	52	31.729	245	7.20	30	7.281	184	37.54	226
17.9	58.91	43	52.96	124	14.062	299	10.27	29	31.974	284	6.90	8	7.465	219	35.28	226
27.9	59.34	48	51.72	92	14.361	333	9.98	4	32.258	317	6.82	14	7.684	248	33.02	220
Juli 7.9	59.82	53	50.80	56	14.694	360	9.94	20	32.575	343	6.96	35	7.932	272	30.82	207
17.8	60.35	56	50.24	20	15.054	377	10.14	43	32.918	359	7.31	55	8.204	288	28.75	188
27.8	60.91	57	50.04	17	15.431	388	10.57	63	33.277	369	7.86	73	8.492	298	26.87	163
Aug. 6.8	61.48	58	50.21	52	15.819	391	11.20	83	33.646	372	8.59	87	8.790	303	25.24	133
16.8	62.06	58	50.73	86	16.210	388	12.03	99	34.018	369	9.46	99	9.093	300	23.91	98
26.7	62.64	57	51.59	118	16.598	377	13.02	112	34.387	359	10.45	109	9.393	292	22.93	61
Sept. 5.7	63.21	54	52.77	147	16.975	363	14.14	123	34.746	345	11.54	116	9.685	280	22.32	20
15.7	63.75	52	54.24	173	17.338	345	15.37	131	35.091	328	12.70	121	9.965	264	22.12	20
25.6	64.27	48	55.97	197	17.683	321	16.68	137	35.419	306	13.91	122	10.229	244	22.32	59
Okt. 5.6	64.75	44	57.94	216	18.004	295	18.05	141	35.725	281	15.13	123	10.473	220	22.91	96
15.6	65.19	39	60.10	232	18.299	265	19.46	143	36.006	253	16.36	123	10.693	196	23.87	128
25.6	65.58	33	62.42	243	18.564	232	20.89	143	36.259	223	17.59	120	10.889	166	25.15	153
Nov. 4.5	65.91	27	64.85	250	18.796	195	22.32	141	36.482	187	18.79	116	11.055	136	26.68	173
14.5	66.18	20	67.35	250	18.991	153	23.73	137	36.669	149	19.95	111	11.191	103	28.41	185
24.5	66.38	13	69.85	246	19.144	110	25.10	130	36.818	108	21.06	104	11.294	69	30.26	190
Dez. 4.4	66.51	5	72.31	233	19.254	63	26.40	120	36.926	64	22.10	95	11.363	31	32.16	187
14.4	66.56	3	74.64	214	19.317	13	27.60	107	36.990	17	23.05	84	11.394	5	34.03	178
24.4	66.53	10	76.78	188	19.330	35	28.67	89	37.007	30	23.89	69	11.389	42	35.81	162
34.4	66.43		78.66		19.295		29.56		36.977		24.58		11.347		37.43	
Mittl. Ort	57.79		50.37		12.721		5.44		30.632		1.51		6.562		48.56	
sec δ, tg δ	2.054		+1.794		1.301		+0.832		1.229		+0.715		1.029		−0.245	

Mittlere Zeit Greenw.	150) λ Tauri AR.		150) λ Tauri Dekl.		151) ν Tauri AR.		151) ν Tauri Dekl.		152) *c* Persei AR.		152) *c* Persei Dekl.		154) o¹ Eridani AR.		154) o¹ Eridani Dekl.	
	3h 56m		+12° 15′		3h 58m		+5° 45′		4h 2m		+47° 29′		4h 7m		−7° 2′	
Jan. 0.4	3.362	40	22.53	46	43.066	40	32.48	75	36.006	69	37.14	120	47.753	45	76.71	130
10.4	3.322	76	22.07	46	43.026	76	31.73	69	35.937	123	38.34	94	47.708	80	78.01	114
20.3	3.246	108	21.61	44	42.950	106	31.04	61	35.814	170	39.28	64	47.628	111	79.15	93
30.3	3.138	133	21.17	43	42.844	132	30.43	53	35.644	207	39.92	31	47.517	137	80.08	73
Feb. 9.3	3.005	151	20.74	41	42.712	150	29.90	43	35.437	234	40.23	3	47.380	155	80.81	50
19.2	2.854	160	20.33	37	42.562	159	29.47	34	35.203	245	40.20	38	47.225	166	81.31	27
29.2	2.694	159	19.96	33	42.403	158	29.13	22	34.958	243	39.82	70	47.059	167	81.58	3
März 10.2	2.535	148	19.63	28	42.245	148	28.91	10	34.715	227	39.12	100	46.892	158	81.61	22
20.2	2.387	127	19.35	19	42.097	128	28.81	3	34.488	196	38.12	124	46.734	140	81.39	45
30.1	2.260	97	19.16	9	41.969	100	28.84	19	34.292	153	36.88	144	46.594	113	80.94	69
Apr. 9.1	2.163	60	19.07	4	41.869	64	29.03	35	34.139	100	35.44	156	46.481	79	80.25	93
19.1	2.103	18	19.11	17	41.805	23	29.38	52	34.039	41	33.88	162	46.402	40	79.32	116
29.1	2.085	28	19.28	34	41.782	22	29.90	70	33.998	25	32.26	160	46.362	4	78.16	137
Mai 9.0	2.113	74	19.62	50	41.804	67	30.60	87	34.023	90	30.66	153	46.366	49	76.79	156
19.0	2.187	120	20.12	66	41.871	113	31.47	104	34.113	155	29.13	140	46.415	93	75.23	172
29.0	2.307	164	20.78	83	41.984	155	32.51	118	34.268	216	27.73	121	46.508	137	73.51	185
Juni 7.9	2.471	203	21.61	97	42.139	194	33.69	131	34.484	272	26.52	100	46.645	176	71.66	194
17.9	2.674	237	22.58	109	42.333	228	35.00	140	34.756	321	25.52	75	46.821	211	69.72	196
27.9	2.911	265	23.67	117	42.561	256	36.40	144	35.077	360	24.77	48	47.032	241	67.76	195
Juli 7.9	3.176	287	24.84	124	42.817	278	37.84	146	35.437	393	24.29	20	47.273	264	65.81	187
17.8	3.463	302	26.08	124	43.095	294	39.30	142	35.830	416	24.09	6	47.537	282	63.94	174
27.8	3.765	311	27.32	122	43.389	303	40.72	133	36.246	430	24.15	33	47.819	293	62.20	154
Aug. 6.8	4.076	313	28.54	115	43.692	305	42.05	120	36.676	436	24.48	58	48.112	299	60.66	131
16.8	4.389	310	29.69	105	43.997	303	43.25	104	37.112	435	25.06	81	48.411	298	59.35	102
26.7	4.699	302	30.74	90	44.300	296	44.29	83	37.547	427	25.87	101	48.709	292	58.33	70
Sept. 5.7	5.001	291	31.64	75	44.596	285	45.12	61	37.974	414	26.88	120	49.001	283	57.63	36
15.7	5.292	275	32.39	56	44.881	269	45.73	37	38.388	394	28.08	136	49.284	269	57.27	0
25.6	5.567	256	32.95	38	45.150	252	46.10	13	38.782	371	29.44	149	49.553	251	57.27	35
Okt. 5.6	5.823	235	33.33	19	45.402	231	46.23	11	39.153	343	30.93	161	49.804	231	57.62	67
15.6	6.058	212	33.52	3	45.633	208	46.12	32	39.496	309	32.54	169	50.035	207	58.29	97
25.6	6.270	186	33.55	12	45.841	182	45.80	49	39.805	273	34.23	174	50.242	182	59.26	121
Nov. 4.5	6.456	158	33.43	24	46.023	154	45.31	64	40.078	230	35.97	178	50.424	154	60.47	140
14.5	6.614	126	33.19	34	46.177	123	44.67	75	40.308	183	37.75	177	50.578	121	61.87	152
24.5	6.740	93	32.85	42	46.300	90	43.92	82	40.491	133	39.52	172	50.699	88	63.39	158
Dez. 4.5	6.833	56	32.43	45	46.390	54	43.10	84	40.624	77	41.24	164	50.787	52	64.97	158
14.4	6.889	18	31.98	48	46.444	17	42.26	84	40.701	19	42.88	150	50.839	14	66.55	152
24.4	6.907	20	31.50	48	46.461	20	41.42	80	40.720	37	44.38	132	50.853	23	68.07	141
34.4	6.887		31.02		46.441		40.62		40.683		45.70		50.830		69.48	
Mittl. Ort	1.443		13.71		41.169		25.16		33.452		21.51		45.850		81.18	
sec δ, tg δ	1.023		+0.217		1.005		+0.101		1.480		+1.091		1.008		−0.124	

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	155) α Horologii				156) α Reticuli				160) υ⁴ Eridani				162) δ Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	4h 11m		−42° 29′		4h 13m		−62° 40′		4h 14m		−33° 59′		4h 18m		+17° 20′	
	s		″		s		″		s		″		s		″	
Jan. 0.4	15.159	130	65.55	233	23.27	29	65.71	247	44.907	94	70.79	219	7.351	23	56.29	23
10.4	15.029	172	67.88	193	22.98	36	68.18	201	44.813	133	72.98	184	7.328	63	56.06	25
20.3	14.857	209	69.81	148	22.62	41	70.19	150	44.680	168	74.82	144	7.265	99	55.81	27
30.3	14.648	239	71.29	100	22.21	45	71.69	94	44.512	197	76.26	102	7.166	129	55.54	29
Feb. 9.3	14.409	258	72.29	50	21.76	48	72.63	37	44.315	217	77.28	57	7.037	152	55.25	32
19.3	14.151	269	72.79	1	21.28	49	73.00	19	44.098	227	77.85	11	6.885	164	54.93	34
29.2	13.882	268	72.80	50	20.79	49	72.81	75	43.871	229	77.96	34	6.721	167	54.59	35
März 10.2	13.614	256	72.30	97	20.30	46	72.06	127	43.642	218	77.62	77	6.554	160	54.24	34
20.2	13.358	233	71.33	142	19.84	43	70.79	176	43.424	199	76.85	119	6.394	141	53.90	33
30.1	13.125	201	69.91	184	19.41	38	69.03	221	43.225	170	75.66	158	6.253	114	53.57	27
Apr. 9.1	12.924	160	68.07	222	19.03	32	66.82	259	43.055	133	74.08	194	6.139	78	53.30	21
19.1	12.764	113	65.85	254	18.71	25	64.23	293	42.922	89	72.14	226	6.061	36	53.09	11
29.1	12.651	61	63.31	281	18.46	17	61.30	320	42.833	42	69.88	253	6.025	10	52.98	2
Mai 9.0	12.590	5	60.50	302	18.29	9	58.10	339	42.791	8	67.35	274	6.035	56	53.00	15
19.0	12.585	51	57.48	316	18.20	1	54.71	350	42.799	59	64.61	289	6.091	104	53.15	30
29.0	12.636	106	54.32	322	18.19	8	51.21	353	42.858	110	61.72	298	6.195	149	53.45	45
Juni 8.0	12.742	159	51.10	321	18.27	16	47.68	348	42.968	156	58.74	299	6.344	190	53.90	59
17.9	12.901	208	47.89	312	18.43	24	44.20	333	43.124	200	55.75	293	6.534	227	54.49	72
27.9	13.109	250	44.77	293	18.67	31	40.87	309	43.324	238	52.82	278	6.761	258	55.21	84
Juli 7.9	13.359	287	41.84	266	18.98	37	37.78	277	43.562	270	50.04	256	7.019	282	56.05	91
17.8	13.646	315	39.18	233	19.35	43	35.01	237	43.832	294	47.48	227	7.301	301	56.96	96
27.8	13.961	337	36.85	190	19.78	47	32.64	188	44.126	313	45.21	189	7.602	312	57.92	98
Aug. 6.8	14.298	350	34.95	142	20.25	49	30.76	135	44.439	323	43.32	145	7.914	318	58.90	96
16.8	14.648	355	33.53	90	20.74	52	29.41	75	44.762	327	41.87	98	8.232	318	59.86	90
26.7	15.003	351	32.63	32	21.26	51	28.66	12	45.089	325	40.89	45	8.550	314	60.76	82
Sept. 5.7	15.354	341	32.31	26	21.77	50	28.54	51	45.414	314	40.44	10	8.864	306	61.58	71
15.7	15.695	323	32.57	84	22.27	47	29.05	114	45.728	300	40.54	63	9.170	293	62.29	58
25.7	16.018	299	33.41	139	22.74	43	30.19	173	46.028	279	41.17	116	9.463	277	62.87	45
Okt. 5.6	16.317	267	34.80	190	23.17	38	31.92	227	46.307	252	42.33	165	9.740	259	63.32	30
15.6	16.584	232	36.70	234	23.55	31	34.19	273	46.559	223	43.98	206	9.999	238	63.62	18
25.6	16.816	191	39.04	270	23.86	24	36.92	309	46.782	188	46.04	240	10.237	213	63.80	7
Nov. 4.5	17.007	147	41.74	294	24.10	17	40.01	334	46.970	151	48.44	266	10.450	185	63.87	3
14.5	17.154	99	44.68	309	24.27	8	43.35	346	47.121	110	51.10	281	10.635	154	63.84	10
24.5	17.253	49	47.77	312	24.35	0	46.81	346	47.231	66	53.91	285	10.789	119	63.74	16
Dez. 4.5	17.302	3	50.89	303	24.35	9	50.27	334	47.297	21	56.76	280	10.908	82	63.58	19
14.4	17.299	53	53.92	284	24.26	18	53.61	310	47.318	24	59.56	264	10.990	41	63.39	22
24.4	17.246	102	56.76	257	24.08	25	56.71	275	47.294	68	62.20	240	11.031	0	63.17	24
34.4	17.144		59.33		23.83		59.46		47.226		64.60		11.031		62.93	
Mittl. Ort	12.979		63.77		20.33		61.86		42.847		70.37		5.298		47.00	
sec δ, tg δ	1.356		—0.916		2.179		—1.936		1.206		—0.675		1.048		+0.312	

Mittlere Zeit Greenw.	164) ε Tauri AR.		164) ε Tauri Dekl.		168) α Tauri AR.		168) α Tauri Dekl.		169) ν Eridani AR.		169) ν Eridani Dekl.		171) α Doradus AR.		171) α Doradus Dekl.	
	4h 23m		+18° 59′		4h 31m		+16° 20′		4h 32m		−3° 31′		4h 32m		−55° 12′	
Jan. 0.4	44.668	18	51.65	15	8.014	12	37.46	29	9.230	22	19.29	125	13.471	188	67.43	267
10.4	44.650	60	51.50	18	8.002	54	37.17	28	9.208	62	20.54	110	13.283	246	70.10	225
20.4	44.590	96	51.32	20	7.948	91	36.89	29	9.146	96	21.64	94	13.037	295	72.35	177
30.3	44.494	128	51.12	24	7.857	124	36.60	30	9.050	127	22.58	75	12.742	334	74.12	125
Feb. 9.3	44.366	152	50.88	28	7.733	148	36.30	30	8.923	150	23.33	55	12.408	363	75.37	71
19.3	44.214	166	50.60	32	7.585	164	36.00	31	8.773	164	23.88	36	12.045	378	76.08	16
29.2	44.048	170	50.28	35	7.421	169	35.69	31	8.609	169	24.24	15	11.667	381	76.24	38
März 10.2	43.878	163	49.93	36	7.252	163	35.38	30	8.440	164	24.39	6	11.286	370	75.86	91
20.2	43.715	145	49.57	35	7.089	147	35.08	27	8.276	149	24.33	28	10.916	345	74.95	141
30.2	43.570	118	49.22	34	6.942	122	34.81	23	8.127	125	24.05	49	10.571	311	73.54	187
Apr. 9.1	43.452	83	48.88	27	6.820	87	34.58	15	8.002	94	23.56	70	10.260	263	71.67	228
19.1	43.369	41	48.61	19	6.733	48	34.43	6	7.908	57	22.86	90	9.997	209	69.39	265
29.1	43.328	5	48.42	8	6.685	2	34.37	5	7.851	14	21.96	111	9.788	146	66.74	295
Mai 9.1	43.333	52	48.34	4	6.683	43	34.42	18	7.837	29	20.85	129	9.642	80	63.79	319
19.0	43.385	100	48.38	18	6.726	91	34.60	32	7.866	74	19.56	146	9.562	11	60.60	334
29.0	43.485	145	48.56	34	6.817	135	34.92	46	7.940	117	18.10	159	9.551	59	57.26	343
Juni 8.0	43.630	188	48.90	47	6.952	178	35.38	59	8.057	157	16.51	168	9.610	127	53.83	343
17.9	43.818	225	49.37	61	7.130	214	35.97	71	8.214	194	14.83	174	9.737	192	50.40	333
27.9	44.043	256	49.98	72	7.344	247	36.68	81	8.408	225	13.09	175	9.929	251	47.07	314
Juli 7.9	44.299	281	50.70	81	7.591	272	37.49	88	8.633	251	11.34	170	10.180	303	43.93	288
17.9	44.580	301	51.51	87	7.863	292	38.37	92	8.884	270	9.64	160	10.483	348	41.05	252
27.8	44.881	313	52.38	90	8.155	306	39.29	92	9.154	285	8.04	145	10.831	384	38.53	208
Aug. 6.8	45.194	320	53.28	89	8.461	313	40.21	90	9.439	294	6.59	125	11.215	408	36.45	157
16.8	45.514	321	54.17	86	8.774	316	41.11	83	9.733	296	5.34	100	11.623	425	34.88	101
26.7	45.835	318	55.03	79	9.090	313	41.94	73	10.029	295	4.34	71	12.048	429	33.87	40
Sept. 5.7	46.153	310	55.82	69	9.403	307	42.67	61	10.324	289	3.63	40	12.477	423	33.47	22
15.7	46.463	298	56.51	58	9.710	297	43.28	48	10.613	278	3.23	7	12.900	406	33.69	86
25.7	46.761	283	57.09	46	10.007	282	43.76	34	10.891	265	3.16	25	13.306	379	34.55	145
Okt. 5.6	47.044	266	57.55	35	10.289	267	44.10	20	11.156	248	3.41	56	13.685	343	36.00	202
15.6	47.310	245	57.90	23	10.556	246	44.30	6	11.404	228	3.97	85	14.028	298	38.02	251
25.6	47.555	221	58.13	13	10.802	223	44.36	6	11.632	205	4.82	108	14.326	245	40.53	292
Nov. 4.6	47.776	193	58.26	4	11.025	196	44.30	15	11.837	179	5.90	126	14.571	186	43.45	321
14.5	47.969	161	58.30	3	11.221	166	44.15	22	12.016	148	7.16	140	14.757	122	46.66	338
24.5	48.130	126	58.27	7	11.387	132	43.93	26	12.164	114	8.56	147	14.879	55	50.04	345
Dez. 4.5	48.256	89	58.20	10	11.519	93	43.67	30	12.278	79	10.03	147	14.934	16	53.49	338
14.5	48.345	47	58.10	14	11.612	53	43.37	30	12.357	39	11.50	144	14.918	84	56.87	320
24.4	48.392	5	57.96	15	11.665	11	43.07	31	12.396	1	12.94	134	14.834	150	60.07	291
34.4	48.397		57.81		11.676		42.76		12.395		14.28		14.684		62.98	
Mittl. Ort	42.576		42.23		5.920		28.80		7.249		24.33		10.874		65.18	
sec δ, tg δ	1.058		+0.344		1.042		+0.293		1.002		−0.062		1.753		−1.440	

Mittlere Zeit Greenw.	172) 53 Eridani AR.		172) 53 Eridani Dekl.		174) τ Tauri AR.		174) τ Tauri Dekl.	
	4h 34m		−14° 27′		4h 37m		+22° 47′	
Jan. 0.4	21.930	35	60.07	172	14.277	7	57.80	6
10.4	21.895	73	61.79	151	14.270	51	57.86	1
20.4	21.822	109	63.30	125	14.219	92	57.87	4
30.3	21.713	140	64.55	97	14.127	126	57.83	11
Feb. 9.3	21.573	162	65.52	67	14.001	152	57.72	17
19.3	21.411	177	66.19	37	13.849	170	57.55	25
29.2	21.234	182	66.56	6	13.679	177	57.30	32
März 10.2	21.052	177	66.62	24	13.502	171	56.98	38
20.2	20.875	162	66.38	55	13.331	156	56.60	42
30.2	20.713	139	65.83	84	13.175	129	56.18	43
Apr. 9.1	20.574	107	64.99	112	13.046	95	55.75	42
19.1	20.467	70	63.87	139	12.951	54	55.33	37
29.1	20.397	28	62.48	162	12.897	7	54.96	29
Mai 9.1	20.369	16	60.86	183	12.890	41	54.67	19
19.0	20.385	62	59.03	200	12.931	89	54.48	8
29.0	20.447	106	57.03	214	13.020	136	54.40	6
Juni 8.0	20.553	146	54.89	220	13.156	180	54.46	20
17.9	20.699	185	52.69	223	13.336	219	54.66	33
27.9	20.884	218	50.46	219	13.555	252	54.99	45
Juli 7.9	21.102	245	48.27	209	13.807	279	55.44	57
17.9	21.347	268	46.18	191	14.086	301	56.01	64
27.8	21.615	282	44.27	168	14.387	316	56.65	70
Aug. 6.8	21.897	293	42.59	140	14.703	324	57.35	72
16.8	22.190	297	41.19	105	15.027	328	58.07	72
26.7	22.487	297	40.14	67	15.355	327	58.79	68
Sept. 5.7	22.784	291	39.47	27	15.682	321	59.47	64
15.7	23.075	281	39.20	16	16.003	311	60.11	57
25.7	23.356	266	39.36	56	16.314	298	60.68	48
Okt. 5.6	23.622	249	39.92	96	16.612	282	61.16	41
15.6	23.871	228	40.88	131	16.894	262	61.57	32
25.6	24.099	203	42.19	161	17.156	239	61.89	26
Nov. 4.6	24.302	174	43.80	183	17.395	212	62.15	19
14.5	24.476	143	45.63	199	17.607	180	62.34	16
24.5	24.619	107	47.62	207	17.787	144	62.50	12
Dez. 4.5	24.726	69	49.69	207	17.931	105	62.62	10
14.5	24.795	30	51.76	199	18.036	62	62.72	8
24.4	24.825	12	53.75	186	18.098	18	62.80	4
34.4	24.813		55.61		18.116		62.84	
Mittl. Ort	19.944		63.22		12.084		48.24	
sec δ, tg δ	1.033		−0.258		1.085		+0.420	

Mittlere Zeit Greenw.	173) Gr. 848 AR.		173) Gr. 848 Dekl.		175) 4 Camelop. AR.		175) 4 Camelop. Dekl.	
	4h 37m		+75° 47′		4h 40m		+56° 36′	
Jan. 0.4	36.81	24	41.81	257	63.302	46	47.75	179
10.4	36.57	39	44.38	224	63.256	120	49.54	155
20.4	36.18	53	46.62	183	63.136	186	51.09	125
30.3	35.65	64	48.45	135	62.950	241	52.34	89
Feb. 9.3	35.01	73	49.80	81	62.709	284	53.23	50
19.3	34.28	77	50.61	26	62.425	311	53.73	9
29.2	33.51	79	50.87	32	62.114	319	53.82	33
März 10.2	32.72	75	50.55	85	61.795	310	53.49	73
20.2	31.97	69	49.70	136	61.485	284	52.76	109
30.2	31.28	60	48.34	181	61.201	240	51.67	141
Apr. 9.1	30.68	48	46.53	217	60.961	184	50.26	166
19.1	30.20	33	44.36	245	60.777	118	48.60	184
29.1	29.87	17	41.91	264	60.659	43	46.76	195
Mai 9.1	29.70	0	39.27	274	60.616	33	44.81	198
19.0	29.70	16	36.53	273	60.649	113	42.83	194
29.0	29.86	33	33.80	266	60.762	188	40.89	185
Juni 8.0	30.19	48	31.14	249	60.950	258	39.04	169
17.9	30.67	62	28.65	226	61.208	324	37.35	149
27.9	31.29	74	26.39	197	61.532	379	35.86	125
Juli 7.9	32.03	86	24.42	165	61.911	427	34.61	99
17.9	32.89	95	22.77	127	62.338	465	33.62	70
27.8	33.84	101	21.50	88	62.803	492	32.92	40
Aug. 6.8	34.85	106	20.62	47	63.295	511	32.52	11
16.8	35.91	109	20.15	5	63.806	522	32.41	18
26.7	37.00	111	20.10	37	64.328	523	32.59	47
Sept. 5.7	38.11	109	20.47	78	64.851	517	33.06	73
15.7	39.20	106	21.25	117	65.368	503	33.79	99
25.7	40.26	101	22.42	155	65.871	484	34.78	123
Okt. 5.6	41.27	96	23.97	190	66.355	458	36.01	145
15.6	42.23	87	25.87	222	66.813	423	37.46	164
25.6	43.10	76	28.09	249	67.236	383	39.10	181
Nov. 4.6	43.86	65	30.58	271	67.619	335	40.91	195
14.5	44.51	51	33.29	288	67.954	278	42.86	204
24.5	45.02	36	36.17	296	68.232	216	44.90	209
Dez. 4.5	45.38	20	39.13	297	68.448	146	46.99	209
14.5	45.58	3	42.10	288	68.594	73	49.08	202
24.4	45.61	13	44.98	271	68.667	4	51.10	189
34.4	45.48		47.69		68.663		52.99	
Mittl. Ort	30.33		25.62		59.983		33.56	
sec δ, tg δ	4.074		+3.949		1.817		+1.517	

Mittlere Zeit Greenw.	178) 9 Camelop.				180) π^5 Orionis				181) ι Aurigae				183) ε Aurigae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$4^h 45^m$		$+66° 12'$		$4^h 49^m$		$+2° 18'$		$4^h 51^m$		$+33° 2'$		$4^h 55^m$		$+43° 42'$	
	s		"		s		"		s		"		s		"	
Jan. 0.4	45.67	9	20.72	224	54.528	4	19.94	103	33.694	4	13.39	62	59.041	1	12.02	120
10.4	45.58	18	22.96	197	54.524	45	18.91	92	33.698	47	14.01	52	59.042	58	13.22	105
20.4	45.40	28	24.93	161	54.479	83	17.99	79	33.651	93	14.53	41	58.984	112	14.27	87
30.3	45.12	35	26.54	121	54.396	115	17.20	66	33.558	133	14.94	26	58.872	159	15.14	63
Feb. 9.3	44.77	41	27.75	74	54.281	142	16.54	51	33.425	166	15.20	10	58.713	197	15.77	37
19.3	44.36	44	28.49	25	54.139	160	16.03	37	33.259	187	15.30	8	58.516	222	16.14	8
29.3	43.92	46	28.74	24	53.979	169	15.66	22	33.072	197	15.22	26	58.294	233	16.22	21
März 10.2	43.46	44	28.50	72	53.810	165	15.44	6	32.875	193	14.96	43	58.061	231	16.01	48
20.2	43.02	41	27.78	117	53.645	154	15.38	9	32.682	179	14.53	58	57.830	214	15.53	75
30.2	42.61	35	26.61	156	53.491	131	15.47	26	32.503	153	13.95	69	57.616	184	14.78	96
Apr. 9.1	42.26	28	25.05	189	53.360	103	15.73	42	32.350	116	13.26	78	57.432	144	13.82	114
19.1	41.98	19	23.16	213	53.257	66	16.15	59	32.234	73	12.48	82	57.288	94	12.68	126
29.1	41.79	9	21.03	229	53.191	25	16.74	77	32.161	23	11.66	82	57.194	37	11.42	133
Mai 9.1	41.70	1	18.74	238	53.166	18	17.51	93	32.138	28	10.84	78	57.157	21	10.09	134
19.0	41.71	11	16.36	238	53.184	63	18.44	108	32.166	82	10.06	70	57.178	82	8.75	130
29.0	41.82	22	13.98	230	53.247	105	19.52	121	32.248	132	9.36	59	57.260	140	7.45	121
Juni 8.0	42.04	31	11.68	216	53.352	147	20.73	132	32.380	181	8.77	46	57.400	196	6.24	108
18.0	42.35	40	9.52	195	53.499	183	22.05	140	32.561	224	8.31	31	57.596	247	5.16	93
27.9	42.75	48	7.57	169	53.682	216	23.45	142	32.785	262	8.00	17	57.843	291	4.23	75
Juli 7.9	43.23	54	5.88	141	53.898	242	24.87	142	33.047	294	7.83	2	58.134	328	3.48	56
17.9	43.77	60	4.47	108	54.140	265	26.29	136	33.341	319	7.81	12	58.462	359	2.92	36
27.8	44.37	64	3.39	74	54.405	280	27.65	126	33.660	337	7.93	24	58.821	381	2.56	16
Aug. 6.8	45.01	67	2.65	39	54.685	291	28.91	110	33.997	350	8.17	36	59.202	397	2.40	2
16.8	45.68	69	2.26	3	54.976	297	30.01	92	34.347	357	8.53	44	59.599	406	2.42	21
26.8	46.37	69	2.23	32	55.273	297	30.93	68	34.704	357	8.97	52	60.005	409	2.63	38
Sept. 5.7	47.06	69	2.55	67	55.570	294	31.61	42	35.061	354	9.49	56	60.414	407	3.01	53
15.7	47.75	67	3.22	100	55.864	286	32.03	15	35.415	347	10.05	60	60.821	398	3.54	67
25.7	48.42	65	4.22	132	56.150	276	32.18	12	35.762	334	10.65	62	61.219	387	4.21	81
Okt. 5.7	49.07	61	5.54	162	56.426	262	32.06	39	36.096	319	11.27	64	61.606	369	5.02	92
15.6	49.68	57	7.16	188	56.688	244	31.67	63	36.415	300	11.91	66	61.975	347	5.94	103
25.6	50.25	51	9.04	211	56.932	223	31.04	84	36.715	276	12.57	67	62.322	319	6.97	113
Nov. 4.6	50.76	44	11.15	231	57.155	199	30.20	100	36.991	247	13.24	68	62.641	286	8.10	121
14.5	51.20	36	13.46	246	57.354	169	29.20	112	37.238	212	13.92	70	62.927	246	9.31	128
24.5	51.56	28	15.92	254	57.523	137	28.08	119	37.450	174	14.62	71	63.173	200	10.59	132
Dez. 4.5	51.84	18	18.46	256	57.660	101	26.89	120	37.624	130	15.33	70	63.373	148	11.91	133
14.5	52.02	8	21.02	249	57.761	60	25.69	117	37.754	82	16.03	67	63.521	93	13.24	132
24.4	52.10	3	23.51	235	57.821	20	24.52	110	37.836	32	16.70	64	63.614	34	14.56	124
34.4	52.07		25.86		57.841		23.42		37.868		17.34		63.648		15.80	
Mittl. Ort	41.34		5.97		52.476		14.15		31.260		2.98		56.279		0.49	
sec δ, tg δ	2.478		+2.267		1.001		+0.040		1.193		+0.650		1.383		+0.956	

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Mittlere Zeit Greenw.	182) 10 Camelop. AR.		182) 10 Camelop. Dekl.		184) ι Tauri AR.		184) ι Tauri Dekl.	
	4h 55m		+60° 19′		4h 58m		+21° 28′	
Jan. 0.4	60.12	3	28.74	202	6.652	12	23.92	2
10.4	60.09	12	30.76	180	6.664	35	23.90	3
20.4	59.97	20	32.56	150	6.629	76	23.87	5
30.3	59.77	26	34.06	114	6.553	115	23.82	8
Feb. 9.3	59.51	31	35.20	74	6.438	144	23.74	13
19.3	59.20	35	35.94	30	6.294	166	23.61	18
29.3	58.85	36	36.24	15	6.128	176	23.43	23
März 10.2	58.49	36	36.09	58	5.952	175	23.20	29
20.2	58.13	34	35.51	99	5.777	162	22.91	31
30.2	57.79	28	34.52	134	5.615	141	22.60	33
Apr. 9.2	57.51	23	33.18	165	5.474	108	22.27	32
19.1	57.28	16	31.53	189	5.366	70	21.95	29
29.1	57.12	8	29.64	204	5.296	26	21.66	22
Mai 9.1	57.04	0	27.60	211	5.270	20	21.44	14
19.0	57.04	9	25.49	213	5.290	69	21.30	4
29.0	57.13	17	23.36	207	5.359	114	21.26	7
Juni 8.0	57.30	25	21.29	194	5.473	158	21.33	19
18.0	57.55	33	19.35	177	5.631	198	21.52	30
27.9	57.88	39	17.58	154	5.829	233	21.82	41
Juli 7.9	58.27	45	16.04	128	6.062	262	22.23	49
17.9	58.72	49	14.76	101	6.324	286	22.72	56
27.9	59.21	53	13.75	71	6.610	303	23.28	60
Aug. 6.8	59.74	55	13.04	39	6.913	315	23.88	60
16.8	60.29	57	12.65	9	7.228	321	24.48	58
26.8	60.86	57	12.56	22	7.549	324	25.06	54
Sept. 5.7	61.43	58	12.78	53	7.873	321	25.60	48
15.7	62.01	56	13.31	81	8.194	315	26.08	39
25.7	62.57	55	14.12	109	8.509	305	26.47	31
Okt. 5.7	63.12	52	15.21	135	8.814	292	26.78	21
15.6	63.64	48	16.56	159	9.106	275	26.99	13
25.6	64.12	44	18.15	180	9.381	255	27.12	7
Nov. 4.6	64.56	40	19.95	198	9.636	229	27.19	1
14.6	64.96	33	21.93	212	9.865	199	27.20	3
24.5	65.29	25	24.05	221	10.064	165	27.17	4
Dez. 4.5	65.54	19	26.26	225	10.229	126	27.13	4
14.5	65.73	10	28.51	222	10.355	83	27.09	5
24.4	65.83	1	30.73	211	10.438	37	27.04	4
34.4	65.84		32.84		10.475		27.00	
Mittl. Ort	56.38		15.41		4.401		15.51	
sec δ, tg δ	2.020		+1.755		1.075		+0.393	

Mittlere Zeit Greenw.	185) η Aurigae AR.		185) η Aurigae Dekl.		186) ε Leporis AR.		186) ε Leporis Dekl.	
	5h 0m		+41° 7′		5h 1m		−22° 28′	
Jan. 0.4	39.986	9	30.11	107	56.357	25	57.04	219
10.4	39.995	48	31.18	95	56.332	69	59.23	193
20.4	39.947	101	32.13	78	56.263	108	61.16	163
30.3	39.846	148	32.91	58	56.155	143	62.79	130
Feb. 9.3	39.698	184	33.49	34	56.012	171	64.09	94
19.3	39.514	210	33.83	8	55.841	191	65.03	56
29.3	39.304	222	33.91	17	55.650	200	65.59	20
März 10.2	39.082	221	33.74	43	55.450	200	65.79	18
20.2	38.861	206	33.31	67	55.250	188	65.61	55
30.2	38.655	179	32.64	87	55.062	169	65.06	90
Apr. 9.2	38.476	140	31.77	102	54.893	140	64.16	124
19.1	38.336	93	30.75	114	54.753	104	62.92	154
29.1	38.243	40	29.61	119	54.649	64	61.38	182
Mai 9.1	38.203	17	28.42	121	54.585	19	59.56	207
19.0	38.220	75	27.21	116	54.566	25	57.49	225
29.0	38.295	131	26.05	108	54.591	72	55.24	241
Juni 8.0	38.426	185	24.97	96	54.663	115	52.83	249
18.0	38.611	235	24.01	82	54.778	156	50.34	252
27.9	38.846	276	23.19	66	54.934	192	47.82	246
Juli 7.9	39.122	314	22.53	48	55.126	225	45.36	235
17.9	39.436	343	22.05	30	55.351	251	43.01	216
27.9	39.779	365	21.75	12	55.602	272	40.85	189
Aug. 6.8	40.144	381	21.63	4	55.874	288	38.96	157
16.8	40.525	390	21.67	20	56.162	298	37.39	118
26.8	40.915	394	21.87	35	56.460	302	36.21	75
Sept. 5.7	41.309	392	22.22	47	56.762	301	35.46	28
15.7	41.701	386	22.69	59	57.063	296	35.18	21
25.7	42.087	375	23.28	70	57.359	286	35.39	68
Okt. 5.7	42.462	358	23.98	80	57.645	270	36.07	114
15.6	42.820	338	24.78	89	57.915	251	37.21	156
25.6	43.158	313	25.67	97	58.166	228	38.77	193
Nov. 4.6	43.471	281	26.64	104	58.394	199	40.70	220
14.6	43.752	244	27.68	110	58.593	166	42.90	241
24.5	43.996	200	28.78	115	58.759	129	45.31	253
Dez. 4.5	44.196	152	29.93	117	58.888	89	47.84	254
14.5	44.348	97	31.10	115	58.977	45	50.38	248
24.4	44.445	41	32.25	110	59.022	1	52.86	232
34.4	44.486		33.35		59.023		55.18	
Mittl. Ort	37.290		19.23		54.288		59.33	
sec δ, tg δ	1.327		+0.873		1.082		−0.414	

Mittlere Zeit Greenw.	188) β Eridani				192) μ Aurigae				191) 19 H. Camelop.				193) α Aurigae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	5h 3m		−5° 11′		5h 7m		+38° 23′		5h 8m		+79° 8′		5h 10m		+45° 54′	
Jan. 0.4	45.229 s	1	34.69″	144	43.314 s	19	20.02″	93	50.10 s	19	28.23″	283	31.790 s	17	60.38″	133
10.4	45.230	41	36.13	129	43.333	37	20.95	84	49.91	41	31.06	257	31.807	45	61.71	120
20.4	45.189	81	37.42	110	43.296	89	21.79	70	49.50	61	33.63	221	31.762	105	62.91	102
30.3	45.108	115	38.52	90	43.207	135	22.49	52	48.89	77	35.84	177	31.657	156	63.93	80
Feb. 9.3	44.993	143	39.42	68	43.072	173	23.01	32	48.12	91	37.61	127	31.501	198	64.73	52
19.3	44.850	163	40.10	46	42.899	198	23.33	10	47.21	100	38.88	70	31.303	228	65.25	23
29.3	44.687	173	40.56	24	42.701	213	23.43	13	46.21	104	39.58	13	31.075	243	65.48	7
März 10.2	44.514	173	40.80	0	42.488	213	23.30	35	45.17	104	39.71	45	30.832	244	65.41	38
20.2	44.341	163	40.80	21	42.275	199	22.95	57	44.13	98	39.26	99	30.588	231	65.03	67
30.2	44.178	143	40.59	44	42.076	175	22.38	75	43.15	89	38.27	151	30.357	202	64.36	92
Apr. 9.2	44.035	116	40.15	67	41.901	140	21.63	90	42.26	74	36.76	194	30.155	163	63.44	113
19.1	43.919	82	39.48	88	41.761	94	20.73	99	41.52	58	34.82	230	29.992	114	62.31	129
29.1	43.837	42	38.60	108	41.667	44	19.74	105	40.94	38	32.52	257	29.878	59	61.02	140
Mai 9.1	43.795	1	37.52	127	41.623	10	18.69	106	40.56	18	29.95	276	29.819	2	59.62	144
19.0	43.794	44	36.25	144	41.633	65	17.63	102	40.38	3	27.19	284	29.821	64	58.18	143
29.0	43.838	86	34.81	157	41.698	120	16.61	94	40.41	24	24.35	284	29.885	125	56.75	138
Juni 8.0	43.924	128	33.24	168	41.818	172	15.67	84	40.65	45	21.51	276	30.010	183	55.37	128
18.0	44.052	165	31.56	173	41.990	219	14.83	70	41.10	65	18.75	260	30.193	237	54.09	114
27.9	44.217	198	29.83	174	42.209	262	14.13	56	41.75	82	16.15	237	30.430	284	52.95	98
Juli 7.9	44.415	228	28.09	170	42.471	296	13.57	41	42.57	97	13.78	209	30.714	324	51.97	80
17.9	44.643	251	26.39	161	42.767	326	13.16	24	43.54	112	11.69	176	31.038	358	51.17	61
27.9	44.894	269	24.78	144	43.093	349	12.92	10	44.66	123	9.93	139	31.396	385	50.56	41
Aug. 6.8	45.163	282	23.34	124	43.442	364	12.82	5	45.89	131	8.54	100	31.781	403	50.15	21
16.8	45.445	290	22.10	98	43.806	375	12 87	17	47.20	138	7.54	59	32.184	416	49.94	2
26.8	45.735	293	21.12	69	44.181	379	13.04	29	48.58	141	6.95	16	32.600	423	49.92	17
Sept. 5.8	46.028	292	20.43	37	44.560	379	13.33	40	49.99	142	6.79	26	33.023	423	50.09	33
15.7	46.320	287	20.06	2	44.939	373	13.73	49	51.41	142	7.05	69	33.446	418	50.42	51
25.7	46.607	278	20.04	33	45.312	365	14.22	57	52.83	137	7.74	111	33.864	407	50.93	66
Okt. 5.7	46.885	266	20.37	65	45.677	350	14.79	64	54.20	131	8.85	150	34.271	393	51.59	81
15.6	47.151	249	21.02	96	46.027	332	15.43	72	55.51	122	10.35	188	34.664	372	52.40	94
25.6	47.400	230	21.98	122	46.359	308	16.15	78	56.73	110	12.23	222	35.036	345	53.34	107
Nov. 4.6	47.630	205	23.20	143	46.667	279	16.93	85	57.83	96	14.45	252	35.381	313	54.41	119
14.6	47.835	176	24.63	157	46.946	244	17.78	91	58.79	79	16.97	276	35.694	273	55.60	129
24.5	48.011	144	26.20	166	47.190	203	18.69	95	59.58	60	19.73	292	35.967	226	56.89	137
Dez. 4.5	48.155	107	27.86	168	47.393	156	19.64	98	60.18	39	22.65	303	36.193	172	58.26	140
14.5	48.262	67	29.54	164	47.549	104	20.62	98	60.57	17	25.68	302	36.365	114	59.66	141
24.4	48.329	25	31.18	154	47.653	50	21.60	94	60.74	6	28.70	292	36.479	53	61.07	137
34.4	48.354		32.72		47.703		22.54		60.68		31.62		36.532		62.44	
Mittl. Ort	43.173		39.19		40.672		9.96		41.17		14.78		28.866		49.68	
sec δ, tg δ	1.004		−0.091		1.276		+0.792		5.306		+5.211		1.437		+1.032	

Mittlere Zeit Greenw.	194) β Orionis AR.		194) β Orionis Dekl.		196) ϑ Doradus AR.		196) ϑ Doradus Dekl.		201) γ Orionis AR.		201) γ Orionis Dekl.		202) β Tauri AR.		202) β Tauri Dekl.	
	$5^h 10^m$		−8° 17′		$5^h 13^m$		−67° 16′		$5^h 20^m$		+6° 16′		$5^h 20^m$		+28° 32′	
Jan. 0.4	32.072	3	48.30	162	52.57	26	47.93	311	39.646	25	33.50	90	61.287	35	23.36	37
10.4	32.075	39	49.92	144	52.31	36	51.04	274	39.671	19	32.60	81	61.322	17	23.73	35
20.4	32.036	80	51.36	124	51.95	44	53.78	230	39.652	61	31.79	69	61.305	64	24.08	31
30.4	31.956	115	52.60	101	51.51	51	56.08	180	39.591	100	31.10	57	61.241	108	24.39	23
Feb. 9.3	31.841	144	53.61	76	51.00	55	57.88	127	39.491	130	30.53	47	61.133	144	24.62	13
19.3	31.697	164	54.37	51	50.45	60	59.15	72	39.361	154	30.06	35	60.989	171	24.75	2
29.3	31.533	176	54.88	26	49.85	61	59.87	16	39.207	167	29.71	23	60.818	185	24.77	10
März 10.2	31.357	177	55.14	0	49.24	61	60.03	39	39.040	170	29.48	13	60.633	189	24.67	23
20.2	31.180	168	55.14	25	48.63	59	59.64	92	38.870	162	29.35	0	60.444	181	24.44	34
30.2	31.012	149	54.89	50	48.04	55	58.72	142	38.708	145	29.35	11	60.263	160	24.10	43
Apr. 9.2	30.863	123	54.39	75	47.49	50	57.30	188	38.563	119	29.46	24	60.103	130	23.67	51
19.1	30.740	89	53.64	98	46.99	43	55.42	231	38.444	86	29.70	37	59.973	93	23.16	55
29.1	30.651	51	52.66	120	46.56	35	53.11	267	38.358	48	30.07	51	59.880	48	22.61	56
Mai 9.1	30.600	9	51.46	140	46.21	27	50.44	297	38.310	5	30.58	65	59.832	1	22.05	53
19.1	30.591	35	50.06	157	45.94	18	47.47	321	38.305	38	31.23	77	59.831	49	21.52	48
29.0	30.626	78	48.49	172	45.76	8	44.26	335	38.343	81	32.00	90	59.880	97	21.04	40
Juni 8.0	30.704	118	46.77	181	45.68	3	40.91	343	38.424	122	32.90	100	59.977	144	20.64	32
18.0	30.822	157	44.96	187	45.71	12	37.48	340	38.546	160	33.90	107	60.121	187	20.32	21
27.9	30.979	191	43.09	187	45.83	21	34.08	329	38.706	195	34.97	112	60.308	225	20.11	10
Juli 7.9	31.170	221	41.22	182	46.04	30	30.79	309	38.901	223	36.09	113	60.533	258	20.01	1
17.9	31.391	246	39.40	171	46.34	39	27.70	279	39.124	249	37.22	109	60.791	286	20.00	8
27.9	31.637	264	37.69	153	46.73	45	24.91	240	39.373	267	38.31	103	61.077	306	20.08	16
Aug. 6.8	31.901	279	36.16	131	47.18	51	22.51	192	39.640	283	39.34	90	61.383	322	20.24	22
16.8	32.180	288	34.85	103	47.69	55	20.59	139	39.923	292	40.24	75	61.705	334	20.46	26
26.8	32.468	292	33.82	70	48.24	58	19.20	79	40.215	296	40.99	56	62.039	339	20.72	27
Sept. 5.8	32.760	293	33.12	36	48.82	60	18.41	16	40.511	299	41.55	35	62.378	341	20.99	28
15.7	33.053	288	32.76	1	49.42	59	18.25	50	40.810	296	41.90	11	62.719	338	21.27	28
25.7	33.341	281	32.77	38	50.01	57	18.75	114	41.106	290	42.01	13	63.057	332	21.55	26
Okt. 5.7	33.622	269	33.16	75	50.58	52	19.89	175	41.396	281	41.88	36	63.389	322	21.81	24
15.6	33.891	253	33.91	107	51.10	47	21.64	231	41.677	267	41.52	57	63.711	307	22.05	24
25.6	34.144	233	34.98	136	51.57	41	23.95	280	41.944	250	40.95	76	64.018	288	22.29	23
Nov. 4.6	34.377	209	36.34	159	51.98	31	26.75	318	42.194	228	40.19	90	64.306	265	22.52	25
14.6	34.586	181	37.93	175	52.29	22	29.93	345	42.422	201	39.29	100	64.571	234	22.77	26
24.5	34.767	148	39.68	185	52.51	12	33.38	360	42.623	170	38.29	106	64.805	199	23.03	28
Dez. 4.5	34.915	111	41.53	187	52.63	1	36.98	362	42.793	134	37.23	106	65.004	158	23.31	32
14.5	35.026	71	43.40	182	52.64	9	40.60	352	42.927	93	36.17	104	65.162	112	23.63	34
24.5	35.097	28	45.22	173	52.55	20	44.12	331	43.020	50	35.13	97	65.274	63	23.97	36
34.4	35.125		46.95		52.35		47.43		43.070		34.16		65.337		24.33	
Mittl. Ort	30.008		52.35		49.10		47.32		37.496		27.89		58.842		15.26	
sec δ, tg δ	1.011		−0.146		2.589		−2.388		1.006		+0.110		1.138		+0.544	

Mittlere Zeit Greenw.	203) 17 Camelop.				206) δ Orionis				205) Gr. 966				207) α Leporis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$5^h 22^m$		+62° 59′		$5^h 27^m$		−0° 21′		$5^h 28^m$		+74° 59′		$5^h 29^m$		−17° 52′	
Jan. 0.4	18.15	1	66.23	222	44.980	26	32.96	128	36.01	4	36.87	274	3.584	8	51.05	214
10.4	18.16	9	68.45	205	45.006	18	34.24	115	35.97	21	39.61	254	3.592	38	53.19	193
20.4	18.07	18	70.50	179	44.988	60	35.39	99	35.76	36	42.15	225	3.554	81	55.12	167
30.4	17.89	26	72.29	145	44.928	99	36.38	82	35.40	49	44.40	185	3.473	120	56.79	137
Feb. 9.3	17.63	32	73.74	107	44.829	130	37.20	64	34.91	61	46.25	141	3.353	151	58.16	105
19.3	17.31	37	74.81	64	44.699	154	37.84	46	34.30	69	47.66	90	3.202	175	59.21	72
29.3	16.94	40	75.45	18	44.545	168	38.30	28	33.61	73	48.56	35	3.027	189	59.93	38
März 10.3	16.54	40	75.63	28	44.377	172	38.58	10	32.88	74	48.91	19	2.838	193	60.31	4
20.2	16.14	38	75.35	72	44.205	167	38.68	8	32.14	72	48.72	73	2.645	187	60.35	29
30.2	15.76	35	74.63	113	44.038	150	38.60	26	31.42	66	47.99	123	2.458	171	60.06	62
Apr. 9.2	15.41	29	73.50	150	43.888	125	38.34	44	30.76	57	46.76	168	2.287	146	59.44	93
19.1	15.12	22	72.00	178	43.763	94	37.90	62	30.19	45	45.08	205	2.141	115	58.51	123
29.1	14.90	14	70.22	202	43.669	56	37.28	79	29.74	32	43.03	235	2.026	77	57.28	150
Mai 9.1	14.76	6	68.20	215	43.613	16	36.49	96	29.42	18	40.68	256	1.949	37	55.78	174
19.1	14.70	4	66.05	224	43.597	27	35.53	111	29.24	2	38.12	268	1.912	7	54.04	194
29.0	14.74	12	63.81	224	43.624	69	34.42	124	29.22	14	35.44	273	1.919	51	52.10	211
Juni 8.0	14.86	22	61.57	217	43.693	110	33.18	135	29.36	28	32.71	269	1.970	93	49.99	221
18.0	15.08	30	59.40	205	43.803	148	31.83	141	29.64	43	30.02	258	2.063	132	47.78	227
27.9	15.38	37	57.35	187	43.951	182	30.42	144	30.07	57	27.44	239	2.195	170	45.51	225
Juli 7.9	15.75	44	55.48	166	44.133	213	28.98	143	30.64	68	25.05	216	2.365	203	43.26	219
17.9	16.19	50	53.82	140	44.346	238	27.55	135	31.32	79	22.89	188	2.568	230	41.07	203
27.9	16.69	54	52.42	112	44.584	258	26.20	125	32.11	88	21.01	156	2.798	254	39.04	181
Aug. 6.8	17.23	57	51.30	82	44.842	273	24.95	107	32.99	94	19.45	121	3.052	271	37.23	154
16.8	17.80	61	50.48	51	45.115	285	23.88	87	33.93	100	18.24	83	3.323	285	35.69	120
26.8	18.41	61	49.97	20	45.400	291	23.01	63	34.93	104	17.41	44	3.608	292	34.49	84
Sept. 5.8	19.02	63	49.77	11	45.691	294	22.38	34	35.97	105	16.97	4	3.900	297	33.65	35
15.7	19.65	62	49.88	44	45.985	292	22.04	4	37.02	106	16.93	36	4.197	296	33.30	7
25.7	20.27	61	50.32	75	46.277	287	22.00	26	38.08	104	17.29	75	4.493	290	33.37	52
Okt. 5.7	20.88	59	51.07	104	46.564	279	22.26	55	39.12	100	18.04	115	4.783	280	33.89	96
15.7	21.47	56	52.11	133	46.843	266	22.81	83	40.12	94	19.19	151	5.063	266	34.85	137
25.6	22.03	52	53.44	159	47.109	250	23.64	106	41.06	88	20.70	186	5.329	248	36.22	172
Nov. 4.6	22.55	46	55.03	183	47.359	228	24.70	124	41.94	78	22.56	218	5.577	223	37.94	202
14.6	23.01	41	56.86	203	47.587	202	25.94	139	42.72	66	24.74	244	5.800	193	39.96	224
24.5	23.42	33	58.89	219	47.789	170	27.33	146	43.38	54	27.18	265	5.993	160	42.20	237
Dez. 4.5	23.75	24	61.08	229	47.959	135	28.79	148	43.92	38	29.83	278	6.153	121	44.57	241
14.5	23.99	16	63.37	232	48.094	94	30.27	145	44.30	22	32.61	283	6.274	78	46.98	238
24.5	24.15	6	65.69	227	48.188	52	31.72	137	44.52	6	35.44	280	6.352	34	49.36	226
34.4	24.21		67.96		48.240		33.09		44.58		38.24		6.386		51.62	
Mittl. Ort	13.91		55.06		42.859		37.69		29.02		25.61		1.491		54.10	
sec δ, tg δ	2.203		+1.962		1.000		−0.006		3.861		+3.730		1.051		−0.323	

Mittlere Zeit Greenw.	209) ι Orionis				210) ε Orionis				211) ζ Tauri				212) β Doradus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$5^h\ 31^m$		$-5°\ 57'$		$5^h\ 31^m$		$-1°\ 15'$		$5^h\ 32^m$		$+21°\ 5'$		$5^h\ 32^m$		$-62°\ 32'$	
Jan. 0.4	21.524	25	47.23	159	59.148	29	12.50	134	39.769	45	38.95	8	56.73	16	39.96	327
10.4	21.549	21	48.82	142	59.177	15	13.84	121	39.814	5	38.87	3	56.57	25	43.23	295
20.4	21.528	62	50.24	124	59.162	58	15.05	104	39.809	51	38.84	2	56.32	32	46.18	254
30.4	21.466	102	51.48	102	59.104	96	16.09	86	39.758	94	38.82	2	56.00	39	48.72	208
Feb. 9.3	21.364	133	52.50	79	59.008	129	16.95	67	39.664	130	38.80	4	55.61	44	50.80	156
19.3	21.231	157	53.29	56	58.879	154	17.62	49	39.534	157	38.76	7	55.17	48	52.36	103
29.3	21.074	172	53.85	33	58.725	168	18.11	30	39.377	173	38.69	10	54.69	49	53.39	48
März 10.2	20.902	176	54.18	9	58.557	173	18.41	10	39.204	179	38.59	15	54.20	50	53.87	7
20.2	20.726	171	54.27	14	58.384	167	18.51	8	39.025	172	38.44	19	53.70	49	53.80	60
30.2	20.555	156	54.13	37	58.217	153	18.43	27	38.853	156	38.25	22	53.21	47	53.20	113
Apr. 9.2	20.399	131	53.76	59	58.064	128	18.16	46	38.697	129	38.03	22	52.74	42	52.07	160
19.1	20.268	101	53.17	82	57.936	97	17.70	64	38.568	95	37.81	22	52.32	37	50.47	205
29.1	20.167	63	52.35	102	57.839	60	17.06	83	38.473	56	37.59	19	51.95	31	48.42	244
Mai 9.1	20.104	24	51.33	122	57.779	20	16.23	99	38.417	11	37.40	13	51.64	24	45.98	278
19.1	20.080	19	50.11	138	57.759	23	15.24	114	38.406	35	37.27	7	51.40	16	43.20	305
29.0	20.099	61	48.73	152	57.782	64	14.10	128	38.441	81	37.20	1	51.24	8	40.15	324
Juni 8.0	20.160	102	47.21	163	57.846	106	12.82	137	38.522	124	37.21	9	51.16	0	36.91	335
18.0	20.262	140	45.58	170	57.952	143	11.45	145	38.646	166	37.30	18	51.16	8	33.56	339
28.0	20.402	175	43.88	171	58.095	178	10.00	147	38.812	201	37.48	25	51.24	17	30.17	331
Juli 7.9	20.577	205	42.17	167	58.273	209	8.53	146	39.013	234	37.73	32	51.41	24	26.86	315
17.9	20.782	232	40.50	158	58.482	234	7.07	138	39.247	261	38.05	36	51.65	31	23.71	290
27.9	21.014	253	38.92	144	58.716	255	5.69	127	39.508	282	38.41	38	51.96	37	20.81	254
Aug. 6.8	21.267	269	37.48	123	58.971	271	4.42	109	39.790	298	38.79	38	52.33	42	18.27	211
16.8	21.536	282	36.25	98	59.242	283	3.33	88	40.088	311	39.17	35	52.75	47	16.16	160
26.8	21.818	289	35.27	68	59.525	289	2.45	63	40.399	317	39.52	29	53.22	49	14.56	102
Sept. 5.8	22.107	292	34.59	36	59.814	293	1.82	34	40.716	321	39.81	23	53.71	51	13.54	40
15.7	22.399	291	34.23	0	60.107	293	1.48	3	41.037	320	40.04	14	54.22	51	13.14	25
25.7	22.690	286	34.23	34	60.400	288	1.45	28	41.357	316	40.18	5	54.73	50	13.39	91
Okt. 5.7	22.976	279	34.57	70	60.688	280	1.73	59	41.673	308	40.23	4	55.23	47	14.30	153
15.7	23.255	266	35.27	101	60.968	268	2.32	86	41.981	296	40.19	11	55.70	44	15.83	213
25.6	23.521	249	36.28	129	61.236	252	3.18	111	42.277	280	40.08	17	56.14	38	17.96	263
Nov. 4.6	23.770	228	37.57	152	61.488	230	4.29	130	42.557	258	39.91	20	56.52	32	20.59	307
14.6	23.998	201	39.09	168	61.718	205	5.59	144	42.815	231	39.71	23	56.84	24	23.66	338
24.6	24.199	170	40.77	177	61.923	174	7.03	152	43.046	199	39.48	22	57.08	16	27.04	358
Dez. 4.5	24.369	132	42.54	181	62.097	138	8.55	155	43.245	161	39.26	19	57.24	8	30.62	365
14.5	24.501	93	44.35	178	62.235	97	10.10	151	43.406	118	39.07	15	57.32	2	34.27	362
24.5	24.594	50	46.13	168	62.332	55	11.61	143	43.524	72	38.92	12	57.30	12	37.89	344
34.4	24.644		47.81		62.387		13.04		43.596		38.80		57.18		41.33	
Mittl. Ort	19.421		51.36		57.025		17.06		37.425		32.26		53.66		40.55	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		1.072		+0.386		2.169		−1.924	

Mittlere Zeit Greenw.	215) α Columbae AR.		215) α Columbae Dekl.		216) o Aurigae AR.		216) o Aurigae Dekl.		219) ζ Leporis AR.		219) ζ Leporis Dekl.		220) κ Orionis AR.		220) κ Orionis Dekl.	
	$5^h\ 36^m$		$-34°\ 6'$		$5^h\ 39^m$		$+49°\ 47'$		$5^h\ 43^m$		$-14°\ 50'$		$5^h\ 43^m$		$-9°\ 41'$	
Jan. 0.5	38.574	16	64.08	280	26.751	54	35.56	159	11.034	25	65.60	207	48.443	32	51.50	182
10.4	38.558	67	66.88	253	26.805	17	37.15	150	11.059	21	67.67	188	48.475	14	53.32	165
20.4	38.491	115	69.41	221	26.788	85	38.65	135	11.038	66	69.55	164	48.461	58	54.97	144
30.4	38.376	157	71.62	182	26.703	146	40.00	114	10.972	105	71.19	137	48.403	98	56.41	120
Feb. 9.3	38.219	193	73.44	141	26.557	197	41.14	88	10.867	140	72.56	107	48.305	132	57.61	94
19.3	38.026	219	74.85	96	26.360	236	42.02	57	10.727	165	73.63	76	48.173	157	58.55	67
29.3	37.807	235	75.81	51	26.124	261	42.59	24	10.562	181	74.39	44	48.016	174	59.22	41
März 10.3	37.572	240	76.32	6	25.863	269	42.83	9	10.381	189	74.83	14	47.842	181	59.63	13
20.2	37.332	235	76.38	39	25.594	262	42.74	44	10.192	183	74.97	18	47.661	177	59.76	13
30.2	37.097	219	75.99	82	25.332	240	42.30	74	10.009	171	74.79	48	47.484	163	59.63	39
Apr. 9.2	36.878	194	75.17	122	25.092	204	41.56	102	9.838	149	74.31	78	47.321	142	59.24	65
19.1	36.684	160	73.95	161	24.888	157	40.54	124	9.689	118	73.53	105	47.179	112	58.59	89
29.1	36.524	120	72.34	196	24.731	101	39.30	143	9.571	83	72.48	131	47.067	76	57.70	112
Mai 9.1	36.404	77	70.38	225	24.630	40	37.87	154	9.488	43	71.17	155	46.991	37	56.58	133
19.1	36.327	29	68.13	250	24.590	24	36.33	160	9.445	2	69.62	175	46.954	4	55.25	152
29.0	36.298	19	65.63	270	24.614	88	34.73	162	9.443	42	67.87	191	46.958	46	53.73	166
Juni 8.0	36.317	66	62.93	281	24.702	151	33.11	157	9.485	82	65.96	203	47.004	87	52.07	178
18.0	36.383	113	60.12	287	24.853	210	31.54	148	9.567	122	63.93	209	47.091	126	50.29	184
28.0	36.496	156	57.25	283	25.063	264	30.06	136	9.689	159	61.84	210	47.217	161	48.45	186
Juli 7.9	36.652	195	54.42	271	25.327	310	28.70	121	9.848	191	59.74	204	47.378	194	46.59	182
17.9	36.847	230	51.71	253	25.637	352	27.49	105	10.039	220	57.70	192	47.572	221	44.77	171
27.9	37.077	260	49.18	224	25.989	385	26.44	84	10.259	244	55.78	172	47.793	244	43.06	155
Aug. 6.8	37.337	284	46.94	189	26.374	411	25.60	65	10.503	262	54.06	148	48.037	262	41.51	133
16.8	37.621	303	45.05	146	26.785	431	24.95	45	10.765	278	52.58	117	48.299	276	40.18	106
26.8	37.924	315	43.59	97	27.216	444	24.50	25	11.043	287	51.41	80	48.575	285	39.12	73
Sept. 5.8	38.239	322	42.62	45	27.660	451	24.25	4	11.330	293	50.61	41	48.860	292	38.39	38
15.7	38.561	323	42.17	12	28.111	453	24.21	16	11.623	295	50.20	2	49.152	292	38.01	1
25.7	38.884	318	42.29	67	28.564	449	24.37	35	11.918	291	50.22	45	49.444	290	38.02	39
Okt. 5.7	39.202	307	42.96	123	29.013	438	24.72	56	12.209	285	50.67	87	49.734	283	38.41	77
15.7	39.509	290	44.19	173	29.451	421	25.28	74	12.494	272	51.54	127	50.017	272	39.18	113
25.6	39.799	267	45.92	219	29.872	398	26.02	94	12.766	256	52.81	161	50.289	257	40.31	144
Nov. 4.6	40.066	237	48.11	256	30.270	366	26.96	111	13.022	235	54.42	191	50.546	236	41.75	170
14.6	40.303	202	50.67	285	30.636	327	28.07	127	13.257	207	56.33	211	50.782	209	43.45	188
24.6	40.505	162	53.52	302	30.963	279	29.34	141	13.464	176	58.44	225	50.991	179	45.33	200
Dez. 4.5	40.667	115	56.54	311	31.242	223	30.75	152	13.640	137	60.69	231	51.170	143	47.33	205
14.5	40.782	66	59.65	307	31.465	160	32.27	158	13.777	96	63.00	228	51.313	101	49.38	202
24.5	40.848	14	62.72	293	31.625	93	33.85	159	13.873	51	65.28	219	51.414	57	51.40	193
34.4	40.862		65.65		31.718		35.44		13.924		67.47		51.471		53.33	
Mittl. Ort	36.377		66.06		23.505		26.91		8.930		68.94		46.334		55.20	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.035		−0.265		1.015		−0.171	

Mittlere Zeit Greenw.	224) α Orionis AR.		224) α Orionis Dekl.		225) δ Aurigae AR.		225) δ Aurigae Dekl.		227) β Aurigae AR.		227) β Aurigae Dekl.		228) ϑ Aurigae AR.		228) ϑ Aurigae Dekl.	
	$5^h\ 50^m$		$+7^\circ\ 23'$		$5^h\ 52^m$		$+54^\circ\ 16'$		$5^h\ 53^m$		$+44^\circ\ 56'$		$5^h\ 53^m$		$+37^\circ\ 12'$	
Jan. 0.5	39.633	54	37.33	91	40.213	72	54.55	182	25.085	73	31.55	132	62.356	73	34.81	87
10.4	39.687	7	36.42	81	40.285	6	56.37	176	25.158	7	32.87	128	62.429	13	35.68	86
20.4	39.694	39	35.61	69	40.279	82	58.13	160	25.165	56	34.15	118	62.442	43	36.54	81
30.4	39.655	81	34.92	57	40.197	153	59.73	140	25.109	115	35.33	104	62.399	97	37.35	71
Feb. 9.4	39.574	116	34.35	44	40.044	211	61.13	112	24.994	165	36.37	83	62.302	141	38.06	58
19.3	39.458	144	33.91	34	39.833	258	62.25	79	24.829	205	37.20	59	62.161	177	38.64	40
29.3	39.314	163	33.57	22	39.575	288	63.04	42	24.624	230	37.79	31	61.984	201	39.04	21
März 10.3	39.151	171	33.35	13	39.287	301	63.46	5	24.394	242	38.10	2	61.783	211	39.25	1
20.2	38.980	168	33.22	2	38.986	298	63.51	33	24.152	238	38.12	27	61.572	208	39.24	21
30.2	38.812	155	33.20	9	38.688	277	63.18	69	23.914	222	37.85	54	61.364	194	39.03	42
Apr. 9.2	38.657	133	33.29	19	38.411	241	62.49	102	23.692	192	37.31	78	61.170	166	38.61	59
19.2	38.524	104	33.48	30	38.170	193	61.47	129	23.500	151	36.53	100	61.004	130	38.02	73
29.1	38.420	69	33.78	42	37.977	134	60.18	153	23.349	102	35.53	116	60.874	87	37.29	85
Mai 9.1	38.351	28	34.20	53	37.843	69	58.65	169	23.247	48	34.37	127	60.787	37	36.44	92
19.1	38.323	12	34.73	65	37.774	0	56.96	180	23.199	10	33.10	134	60.750	14	35.52	95
29.0	38.335	55	35.38	75	37.774	70	55.16	184	23.209	68	31.76	137	60.764	66	34.57	94
Juni 8.0	38.390	96	36.13	84	37.844	138	53.32	184	23.277	126	30.39	134	60.830	117	33.63	91
18.0	38.486	134	36.97	91	37.982	204	51.48	177	23.403	179	29.05	128	60.947	166	32.72	85
28.0	38.620	170	37.88	95	38.186	265	49.71	167	23.582	229	27.77	119	61.113	209	31.87	77
Juli 7.9	38.790	201	38.83	96	38.451	318	48.04	153	23.811	273	26.58	107	61.322	248	31.10	68
17.9	38.991	228	39.79	93	38.769	365	46.51	136	24.084	311	25.51	94	61.570	282	30.42	57
27.9	39.219	250	40.72	86	39.134	405	45.15	117	24.395	344	24.57	80	61.852	310	29.85	47
Aug. 6.9	39.469	268	41.58	76	39.539	438	43.98	95	24.739	369	23.77	64	62.162	333	29.38	37
16.8	39.737	282	42.34	62	39.977	463	43.03	73	25.108	389	23.13	49	62.495	350	29.01	28
26.8	40.019	291	42.96	43	40.440	480	42.30	51	25.497	404	22.64	33	62.845	362	28.73	19
Sept. 5.8	40.310	297	43.39	23	40.920	492	41.79	26	25.901	412	22.31	18	63.207	371	28.54	11
15.7	40.607	300	43.62	1	41.412	497	41.53	3	26.313	416	22.13	2	63.578	373	28.43	2
25.7	40.907	298	43.63	22	41.909	496	41.50	22	26.729	416	22.11	13	63.951	373	28.41	5
Okt. 5.7	41.205	293	43.41	44	42.405	487	41.72	45	27.145	409	22.24	28	64.324	368	28.46	13
15.7	41.498	284	42.97	64	42.892	471	42.17	70	27.554	396	22.52	44	64.692	357	28.59	21
25.6	41.782	271	42.33	83	43.363	447	42.87	93	27.950	378	22.96	61	65.049	341	28.80	31
Nov. 4.6	42.053	252	41.50	96	43.810	415	43.80	116	28.328	353	23.57	76	65.390	319	29.11	41
14.6	42.305	228	40.54	106	44.225	373	44.96	136	28.681	319	24.33	91	65.709	290	29.52	51
24.6	42.533	200	39.48	110	44.598	321	46.32	155	29.000	277	25.24	105	65.999	253	30.03	61
Dez. 4.5	42.733	163	38.38	110	44.919	260	47.87	169	29.277	228	26.29	117	66.252	210	30.64	71
14.5	42.896	124	37.28	106	45.179	191	49.56	179	29.505	171	27.46	126	66.462	159	31.35	79
24.5	43.020	79	36.22	99	45.370	116	51.35	182	29.676	110	28.72	130	66.621	105	32.14	84
34.4	43.099		35.23		45.486		53.17		29.786		30.02		66.726		32.98	
Mittl. Ort	37.423		32.55		36.624		46.80		22.031		24.41		59.593		28.21	
sec δ, tg δ	1.008		+0.130		1.713		+1.391		1.413		+0.998		1.256		+0.759	

Mittlere Zeit Greenw.	229) η Columbae AR.		Dekl.		232) ν Orionis AR.		Dekl.		234) 22 H. Camelop AR.		Dekl.		236) η Geminorum AR.		Dekl.	
	5h 56m		−42° 48′		6h 2m		+14° 46′		6h 9m		+69° 20′		6h 9m		+22° 31′	
Jan. 0.5	36.851	16	67.74	317	48.869	71	50.48	51	41.20	11	71.51	255	50.880	82	60.72	5
10.4	36.835	75	70.91	290	48.940	21	49.97	41	41.31	2	74.06	248	50.962	30	60.67	3
20.4	36.760	130	73.81	258	48.961	27	49.56	33	41.29	15	76.54	231	50.992	20	60.70	7
30.4	36.630	179	76.39	218	48.934	71	49.23	26	41.14	27	78.85	203	50.972	68	60.77	11
Feb. 9.4	36.451	221	78.57	174	48.863	110	48.97	19	40.87	36	80.88	170	50.904	110	60.88	11
19.3	36.230	253	80.31	127	48.753	141	48.78	14	40.51	44	82.58	127	50.794	143	60.99	9
29.3	35.977	273	81.58	78	48.612	162	48.64	11	40.07	50	83.85	81	50.651	166	61.08	5
März 10.3	35.704	284	82.36	28	48.450	172	48.53	8	39.57	53	84.66	32	50.485	179	61.13	0
20.2	35.420	281	82.64	21	48.278	171	48.45	5	39.04	53	84.98	20	50.306	179	61.13	5
30.2	35.139	267	82.43	68	48.107	161	48.40	3	38.51	50	84.78	68	50.127	169	61.08	11
Apr. 9.2	34.872	244	81.75	115	47.946	139	48.37	2	38.01	46	84.10	113	49.958	149	60.97	16
19.2	34.628	211	80.60	157	47.807	111	48.39	6	37.55	39	82.97	155	49.809	119	60.81	18
29.1	34.417	171	79.03	196	47.696	76	48.45	10	37.16	30	81.42	189	49.690	83	60.63	20
Mai 9.1	34.246	125	77.07	231	47.620	36	48.55	17	36.86	20	79.53	218	49.607	42	60.43	19
19.1	34.121	75	74.76	260	47.584	6	48.72	24	36.66	10	77.35	237	49.565	1	60.24	18
29.1	34.046	24	72.16	283	47.590	48	48.96	31	36.56	2	74.98	249	49.566	45	60.06	13
Juni 8.0	34.022	28	69.33	297	47.638	91	49.27	38	36.58	13	72.49	256	49.611	89	59.93	8
18.0	34.050	81	66.36	306	47.729	130	49.65	44	36.71	24	69.93	253	49.700	130	59.85	4
28.0	34.131	130	63.30	304	47.859	166	50.09	49	36.95	34	67.40	245	49.830	169	59.81	1
Juli 7.9	34.261	177	60.26	295	48.025	199	50.58	51	37.29	43	64.95	231	49.999	203	59.82	4
17.9	34.438	219	57.31	277	48.224	227	51.09	51	37.72	52	62.64	212	50.202	233	59.86	8
27.9	34.657	256	54.54	248	48.451	251	51.60	48	38.24	59	60.52	190	50.435	259	59.94	8
Aug. 6.9	34.913	288	52.06	213	48.702	270	52.08	43	38.83	65	58.62	161	50.694	279	60.02	8
16.8	35.201	315	49.93	169	48.972	286	52.51	34	39.48	71	57.01	133	50.973	296	60.10	4
26.8	35.516	334	48.24	117	49.258	296	52.85	22	40.19	74	55.68	100	51.269	309	60.14	0
Sept. 5.8	35.850	347	47.07	62	49.554	305	53.07	9	40.93	78	54.68	66	51.578	318	60.14	6
15.8	36.197	353	46.45	3	49.859	308	53.16	6	41.71	79	54.02	31	51.896	323	60.08	14
25.7	36.550	352	46.42	59	50.167	310	53.10	21	42.50	79	53.71	6	52.219	325	59.94	20
Okt. 5.7	36.902	344	47.01	118	50.477	306	52.89	36	43.29	78	53.77	42	52.544	323	59.74	28
15.7	37.246	327	48.19	176	50.783	299	52.53	49	44.07	76	54.19	80	52.867	317	59.46	33
25.6	37.573	302	49.95	226	51.082	288	52.04	61	44.83	73	54.99	115	53.184	306	59.13	37
Nov. 4.6	37.875	272	52.21	269	51.370	270	51.43	68	45.56	67	56.14	149	53.490	289	58.76	38
14.6	38.147	231	54.90	304	51.640	248	50.75	73	46.23	60	57.63	182	53.779	266	58.38	36
24.6	38.378	186	57.94	327	51.888	218	50.02	73	46.83	51	59.45	209	54.045	237	58.02	32
Dez. 4.5	38.564	134	61.21	339	52.106	183	49.29	70	47.34	42	61.54	231	54.282	200	57.70	27
14.5	38.698	78	64.60	340	52.289	143	48.59	65	47.76	30	63.85	246	54.482	157	57.43	18
24.5	38.776	19	68.00	330	52.432	97	47.94	58	48.06	18	66.31	254	54.639	110	57.25	11
34.5	38.795		71.30		52.529		47.36		48.24		68.85		54.749		57.14	
Mittl. Ort	34.525		69.98		46.562		45.73		35.57		64.80		48.443		55.96	
sec δ, tg δ	1.363		−0.926		1.034		+0.264		2.836		+2.654		1.083		+0.415	

Mittlere Zeit Greenw.	240) ξ Canis maj. AR.		Dekl.		241) μ Geminorum AR.		Dekl.	
	$6^h\ 17^m$		$-30°\ 1'$		$6^h\ 17^m$		$+22°\ 33'$	
Jan. 0.5	7.439	36	28.16	288	55.201	91	32.25	6
10.5	7.475	16	31.04	267	55.292	39	32.19	1
20.4	7.459	67	33.71	240	55.331	14	32.20	8
30.4	7.392	113	36.11	206	55.317	61	32.28	11
Feb. 9.4	7.279	154	38.17	169	55.256	104	32.39	13
19.3	7.125	187	39.86	130	55.152	139	32.52	12
29.3	6.938	209	41.16	87	55.013	163	32.64	8
März 10.3	6.729	221	42.03	45	54.850	178	32.72	3
20.3	6.508	224	42.48	3	54.672	179	32.75	3
30.2	6.284	214	42.51	39	54.493	171	32.72	8
Apr. 9.2	6.070	197	42.12	80	54.322	151	32.64	13
19.2	5.873	170	41.32	117	54.171	123	32.51	16
29.1	5.703	137	40.15	153	54.048	88	32.35	19
Mai 9.1	5.566	99	38.62	184	53.960	49	32.16	19
19.1	5.467	57	36.78	212	53.911	6	31.97	17
29.1	5.410	14	34.66	235	53.905	38	31.80	15
Juni 8.0	5.396	31	32.31	251	53.943	82	31.65	11
18.0	5.427	75	29.80	261	54.025	122	31.54	6
28.0	5.502	116	27.19	264	54.147	161	31.48	3
Juli 8.0	5.618	155	24.55	259	54.308	196	31.45	0
17.9	5.773	190	21.96	245	54.504	226	31.45	3
27.9	5.963	223	19.51	224	54.730	253	31.48	3
Aug. 6.9	6.186	249	17.27	195	54.983	274	31.51	2
16.8	6.435	273	15.32	158	55.257	292	31.53	2
26.8	6.708	291	13.74	115	55.549	306	31.51	6
Sept. 5.8	6.999	305	12.59	66	55.855	316	31.45	12
15.8	7.304	313	11.93	14	56.171	322	31.33	20
25.7	7.617	316	11.79	41	56.493	326	31.13	27
Okt. 5.7	7.933	313	12.20	94	56.819	325	30.86	34
15.7	8.246	306	13.14	146	57.144	321	30.52	39
25.7	8.552	290	14.60	193	57.465	310	30.13	43
Nov. 4.6	8.842	269	16.53	233	57.775	295	29.70	44
14.6	9.111	240	18.86	267	58.070	273	29.26	41
24.6	9.351	205	21.53	289	58.343	244	28.85	37
Dez. 4.5	9.556	164	24.42	302	58.587	208	28.48	31
14.5	9.720	117	27.44	305	58.795	166	28.17	22
24.5	9.837	68	30.49	297	58.961	119	27.95	13
34.5	9.905		33.46		59.080		27.82	
Mittl. Ort	5.273		31.24		52.755		27.97	
sec δ, tg δ	1.155		−0.578		1.083		+0.415	

Mittlere Zeit Greenw.	242) ψ¹ Aurigae AR.		Dekl.		243) β Canis maj. AR.		Dekl.	
	$6^h\ 18^m$		$+49°\ 19'$		$6^h\ 19^m$		$-17°\ 54'$	
Jan. 0.5	29.171	110	60.69	155	2.133	56	45.11	238
10.5	29.281	37	62.24	155	2.189	7	47.49	219
20.4	29.318	34	63.79	148	2.196	41	49.68	195
30.4	29.284	101	65.27	135	2.155	86	51.63	168
Feb. 9.4	29.183	161	66.62	116	2.069	124	53.31	136
19.3	29.022	209	67.78	90	1.945	155	54.67	104
29.3	28.813	242	68.68	60	1.790	178	55.71	71
März 10.3	28.571	263	69.28	29	1.612	190	56.42	36
20.3	28.308	265	69.57	4	1.422	192	56.78	3
30.2	28.043	254	69.53	38	1.230	184	56.81	30
Apr. 9.2	27.789	227	69.15	68	1.046	167	56.51	62
19.2	27.562	189	68.47	95	0.879	142	55.89	93
29.1	27.373	142	67.52	118	0.737	111	54.96	121
Mai 9.1	27.231	86	66.34	136	0.626	74	53.75	147
19.1	27.145	27	64.98	150	0.552	35	52.28	170
29.1	27.118	34	63.48	158	0.517	5	50.58	189
Juni 8.0	27.152	96	61.90	161	0.522	46	48.69	203
18.0	27.248	154	60.29	161	0.568	86	46.66	212
28.0	27.402	208	58.68	154	0.654	124	44.54	215
Juli 8.0	27.610	259	57.14	146	0.778	158	42.39	211
17.9	27.869	303	55.68	135	0.936	190	40.28	201
27.9	28.172	342	54.33	122	1.126	217	38.27	184
Aug. 6.9	28.514	374	53.11	106	1.343	241	36.43	159
16.8	28.888	401	52.05	90	1.584	260	34.84	129
26.8	29.289	421	51.15	73	1.844	276	33.55	93
Sept. 5.8	29.710	437	50.42	55	2.120	288	32.62	52
15.8	30.147	446	49.87	36	2.408	296	32.10	8
25.7	30.593	451	49.51	17	2.704	299	32.02	38
Okt. 5.7	31.044	449	49.34	4	3.003	297	32.40	84
15.7	31.493	441	49.38	25	3.300	291	33.24	127
25.7	31.934	425	49.63	46	3.591	280	34.51	165
Nov. 4.6	32.359	403	50.09	68	3.871	262	36.16	200
14.6	32.762	369	50.77	89	4.133	238	38.16	226
24.6	33.131	327	51.66	109	4.371	207	40.42	244
Dez. 4.5	33.458	277	52.75	127	4.578	171	42.86	253
14.5	33.735	216	54.02	141	4.749	130	45.39	254
24.5	33.951	149	55.43	150	4.879	83	47.93	247
34.5	34.100		56.93		4.962		50.40	
Mittl. Ort	25.824		55.57		0.012		48.38	
sec δ, tg δ	1.535		+1.164		1.051		−0.323	

Mittlere Zeit Greenw.	244) 8 Monocerotis AR.		Dekl.		245) α Argus AR.		Dekl.		246) 10 Monocerotis AR.		Dekl.		247) 8 Lyncis AR.		Dekl.	
	$6^h\ 19^m$		+4° 38′		$6^h\ 22^m$		−52° 38′		$6^h\ 23^m$		−4° 42′		$6^h\ 30^m$		+61° 33′	
Jan. 0.5	21.242	78	14.71	116	7.714	14	54.60	351	50.848	74	30.44	171	5.43	14	27.73	217
10.5	21.320	31	13.55	103	7.700	85	58.11	328	50.922	27	32.15	155	5.57	5	29.90	216
20.4	21.351	17	12.52	89	7.615	154	61.39	299	50.949	21	33.70	138	5.62	6	32.06	208
30.4	21.334	62	11.63	73	7.461	214	64.38	260	50.928	64	35.08	116	5.56	14	34.14	190
Feb. 9.4	21.272	100	10.90	57	7.247	267	66.98	216	50.864	104	36.24	94	5.42	23	36.04	164
19.3	21.172	133	10.33	43	6.980	309	69.14	168	50.760	136	37.18	71	5.19	29	37.68	131
29.3	21.039	155	9.90	28	6.671	338	70.82	117	50.624	158	37.89	48	4.90	34	38.99	93
März 10.3	20.884	168	9.62	14	6.333	355	71.99	65	50.466	171	38.37	25	4.56	37	39.92	50
20.3	20.716	170	9.48	2	5.978	359	72.64	12	50.295	175	38.62	4	4.19	38	40.42	7
30.2	20.546	162	9.46	11	5.619	349	72.76	39	50.120	167	38.66	19	3.81	37	40.49	38
Apr. 9.2	20.384	144	9.57	24	5.270	328	72.37	90	49.953	150	38.47	39	3.44	34	40.11	79
19.2	20.240	119	9.81	36	4.942	296	71.47	137	49.803	127	38.08	60	3.10	30	39.32	117
29.1	20.121	88	10.17	49	4.646	255	70.10	181	49.676	96	37.48	79	2.80	23	38.15	150
Mai 9.1	20.033	51	10.66	61	4.391	207	68.29	221	49.580	61	36.69	98	2.57	16	36.65	178
19.1	19.982	12	11.27	72	4.184	152	66.08	255	49.519	23	35.71	114	2.41	9	34.87	199
29.1	19.970	28	11.99	83	4.032	95	63.53	282	49.496	17	34.57	128	2.32	0	32.88	214
Juni 8.0	19.998	67	12.82	91	3.937	33	60.71	304	49.513	56	33.29	138	2.32	8	30.74	223
18.0	20.065	106	13.73	97	3.904	27	57.67	316	49.569	94	31.91	147	2.40	16	28.51	224
28.0	20.171	141	14.70	100	3.931	88	54.51	319	49.663	129	30.44	150	2.56	23	26.27	221
Juli 8.0	20.312	174	15.70	100	4.019	145	51.32	314	49.792	162	28.94	148	2.79	30	24.06	213
17.9	20.486	202	16.70	97	4.164	202	48.18	300	49.954	192	27.46	141	3.09	37	21.93	200
27.9	20.688	228	17.67	88	4.366	252	45.18	275	50.146	217	26.05	130	3.46	43	19.93	183
Aug. 6.9	20.916	248	18.55	76	4.618	297	42.43	240	50.363	239	24.75	111	3.89	47	18.10	163
16.8	21.164	264	19.31	60	4.915	336	40.03	198	50.602	257	23.64	90	4.36	52	16.47	140
26.8	21.428	279	19.91	40	5.251	368	38.05	147	50.859	271	22.74	63	4.88	54	15.07	116
Sept. 5.8	21.707	288	20.31	17	5.619	391	36.58	90	51.130	283	22.11	32	5.42	58	13.91	89
15.8	21.995	296	20.48	8	6.010	407	35.68	29	51.413	290	21.79	2	6.00	58	13.02	59
25.7	22.291	298	20.40	34	6.417	412	35.39	35	51.703	295	21.81	36	6.58	60	12.43	30
Okt. 5.7	22.589	298	20.06	58	6.829	408	35.74	100	51.998	294	22.17	70	7.18	60	12.13	2
15.7	22.887	293	19.48	82	7.237	393	36.74	161	52.292	290	22.87	102	7.78	59	12.15	33
25.7	23.180	284	18.66	103	7.630	368	38.35	219	52.582	280	23.89	132	8.37	57	12.48	66
Nov. 4.6	23.464	269	17.63	118	7.998	332	40.54	269	52.862	266	25.21	155	8.94	54	13.14	97
14.6	23.733	248	16.45	130	8.330	287	43.23	310	53.128	245	26.76	173	9.48	50	14.11	129
24.6	23.981	221	15.15	136	8.617	231	46.33	340	53.373	218	28.49	185	9.98	44	15.40	156
Dez. 4.5	24.202	188	13.79	137	8.848	170	49.73	359	53.591	184	30.34	189	10.42	36	16.96	180
14.5	24.390	148	12.42	132	9.018	101	53.32	366	53.775	144	32.23	188	10.78	29	18.76	200
24.5	24.538	105	11.10	125	9.119	30	56.98	360	53.919	101	34.11	180	11.07	20	20.76	212
34.5	24.643		9.85		9.149		60.58		54.020		35.91		11.27		22.88	
Mittl. Ort	19.030		11.00		5.163		57.80		48.698		33.85		1.02		23.41	
sec δ, tg δ	1.003		+0.081		1.648		−1.310		1.003		−0.082		2.099		+1.846	

Mittlere Zeit Greenw.	249) ξ² Canis maj. AR.		Dekl.		248) 23 H. Camelop. AR.		Dekl.		250) 51 Aurigae AR.		Dekl.		251) γ Geminorum AR.		Dekl.	
	$6^h 31^m$		−22° 53′		$6^h 31^m$		+79° 39′		$6^h 32^m$		+39° 27′		$6^h 32^m$		+16° 28′	
Jan. 0.5	34.255	62	47.83	265	65.82	22	33.95	292	53.287	120	61.28	94	53.950	101	22.32	48
10.5	34.317	12	50.48	247	66.04	2	36.87	288	53.407	58	62.22	101	54.051	51	21.84	36
20.4	34.329	38	52.95	223	66.02	27	39.75	274	53.465	4	63.23	101	54.102	0	21.48	27
30.4	34.291	84	55.18	193	65.75	50	42.49	248	53.461	64	64.24	96	54.102	48	21.21	18
Feb. 9.4	34.207	126	57.11	161	65.25	70	44.97	213	53.397	117	65.20	86	54.054	91	21.03	9
19.3	34.081	159	58.72	125	64.55	88	47.10	169	53.280	160	66.06	72	53.963	127	20.94	4
29.3	33.922	184	59.97	87	63.67	99	48.79	118	53.120	192	66.78	53	53.836	152	20.90	1
März 10.3	33.738	197	60.84	51	62.68	107	49.97	64	52.928	213	67.31	31	53.684	168	20.89	1
20.3	33.541	202	61.35	13	61.61	110	50.61	6	52.715	218	67.62	8	53.516	173	20.90	2
30.2	33.339	197	61.48	24	60.51	108	50.67	49	52.497	211	67.70	16	53.343	167	20.92	2
Apr. 9.2	33.142	180	61.24	59	59.43	100	50.18	104	52.286	192	67.54	38	53.176	151	20.94	3
19.2	32.962	158	60.65	94	58.43	89	49.14	154	52.094	161	67.16	57	53.025	126	20.97	5
29.2	32.804	127	59.71	126	57.54	75	47.60	197	51.933	123	66.59	76	52.899	95	21.02	6
Mai 9.1	32.677	92	58.45	155	56.79	57	45.63	233	51.810	78	65.83	89	52.804	58	21.08	9
19.1	32.585	54	56.90	180	56.22	38	43.30	262	51.732	29	64.94	100	52.746	19	21.17	13
29.1	32.531	13	55.10	202	55.84	17	40.68	282	51.703	22	63.94	106	52.727	23	21.30	18
Juni 8.0	32.518	28	53.08	218	55.67	4	37.86	294	51.725	73	62.88	109	52.750	64	21.48	21
18.0	32.546	69	50.90	229	55.71	25	34.92	299	51.798	123	61.79	109	52.814	102	21.69	25
28.0	32.615	108	48.61	233	55.96	45	31.93	295	51.921	168	60.70	107	52.916	140	21.94	28
Juli 8.0	32.723	144	46.28	230	56.41	65	28.98	284	52.089	211	59.63	102	53.056	174	22.22	29
17.9	32.867	177	43.98	220	57.06	83	26.14	268	52.300	249	58.61	97	53.230	204	22.51	28
27.9	33.044	208	41.78	202	57.89	100	23.46	245	52.549	282	57.64	89	53.434	230	22.79	25
Aug. 6.9	33.252	233	39.76	178	58.89	113	21.01	217	52.831	311	56.75	81	53.664	253	23.04	20
16.9	33.485	256	37.98	145	60.02	125	18.84	186	53.142	334	55.94	73	53.917	272	23.24	11
26.8	33.741	275	36.53	106	61.27	135	16.98	150	53.476	353	55.21	65	54.189	287	23.35	1
Sept. 5.8	34.016	289	35.47	64	62.62	143	15.48	112	53.829	369	54.56	57	54.476	299	23.36	11
15.8	34.305	299	34.83	16	64.05	148	14.36	71	54.198	379	53.99	47	54.775	308	23.25	24
25.7	34.604	304	34.67	34	65.53	150	13.65	29	54.577	385	53.52	37	55.083	313	23.01	38
Okt. 5.7	34.908	306	35.01	83	67.03	150	13.36	16	54.962	388	53.15	27	55.396	315	22.63	52
15.7	35.214	300	35.84	130	68.53	147	13.52	60	55.350	384	52.88	14	55.711	313	22.11	63
25.7	35.514	291	37.14	174	70.00	140	14.12	104	55.734	374	52.74	1	56.024	305	21.48	72
Nov. 4.6	35.805	273	38.88	211	71.40	130	15.16	147	56.108	358	52.73	13	56.329	293	20.76	78
14.6	36.078	249	40.99	242	72.70	118	16.63	187	56.466	333	52.86	30	56.622	273	19.98	80
24.6	36.327	219	43.41	264	73.88	102	18.50	222	56.799	301	53.16	45	56.895	247	19.18	78
Dez. 4.6	36.546	181	46.05	276	74.90	83	20.72	252	57.100	259	53.61	62	57.142	214	18.40	74
14.5	36.727	138	48.81	280	75.73	60	23.24	275	57.359	210	54.23	76	57.356	173	17.66	66
24.5	36.865	92	51.61	274	76.33	37	25.99	287	57.569	154	54.99	88	57.529	129	17.00	55
34.5	36.957		54.35		76.70		28.86		57.723		55.87		57.658		16.45	
Mittl. Ort	32.128		51.14		55.22		29.42		50.374		57.67		51.594		18.99	
sec δ, tg δ	1.085		−0.422		5.570		+5.480		1.295		+0.824		1.043		+0.296	

Mittlere Zeit Greenw.	252) ν Argus				253) *S* Monocerotis				254) ε Geminorum				256) ξ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$6^h\ 35^m$		−43° 6′		$6^h\ 36^m$		+9° 58′		$6^h\ 38^m$		+25° 12′		$6^h\ 40^m$		+12° 59′	
Jan. 0.5	13.741 s	33	75.09 "	338	23.430 s	99	30.83 "	89	48.433 s	114	58.26 "	5	36.840 s	106	16.41 "	73
10.5	13.774	28	78.47	319	23.529	50	29.94	76	48.547	61	58.31	16	36.946	55	15.68	59
20.4	13.746	88	81.66	291	23.579	1	29.18	63	48.608	6	58.47	23	37.001	6	15.09	48
30.4	13.658	143	84.57	255	23.580	46	28.55	50	48.614	45	58.70	27	37.007	42	14.61	35
Feb. 9.4	13.515	192	87.12	216	23.534	88	28.05	38	48.569	91	58.97	29	36.965	85	14.26	25
19.3	13.323	230	89.28	171	23.446	124	27.67	26	48.478	130	59.26	27	36.880	122	14.01	16
29.3	13.093	259	90.99	124	23.322	148	27.41	16	48.348	158	59.53	23	36.758	148	13.85	9
März 10.3	12.834	276	92.23	76	23.174	165	27.25	7	48.190	177	59.76	16	36.610	164	13.76	3
20.3	12.558	282	92.99	26	23.009	169	27.18	0	48.013	183	59.92	7	36.446	171	13.73	1
30.2	12.276	276	93.25	22	22.840	164	27.18	7	47.830	177	59.99	1	36.275	166	13.74	6
Apr. 9.2	12.000	260	93.03	70	22.676	150	27.25	14	47.653	161	59.98	9	36.109	151	13.80	10
19.2	11.740	234	92.33	116	22.526	126	27.39	22	47.492	137	59.89	17	35.958	128	13.90	14
29.2	11.506	200	91.17	157	22.400	95	27.61	29	47.355	104	59.72	23	35.830	99	14.04	18
Mai 9.1	11.306	160	89.60	196	22.305	61	27.90	36	47.251	66	59.49	27	35.731	63	14.22	24
19.1	11.146	115	87.64	229	22.244	23	28.26	44	47.185	24	59.22	29	35.668	26	14.46	29
29.1	11.031	67	85.35	258	22.221	17	28.70	51	47.161	19	58.93	30	35.642	15	14.75	34
Juni 8.0	10.964	17	82.77	278	22.238	56	29.21	57	47.180	62	58.63	29	35.657	54	15.09	39
18.0	10.947	33	79.99	293	22.294	95	29.78	62	47.242	104	58.34	28	35.711	93	15.48	43
28.0	10.980	83	77.06	298	22.389	130	30.40	65	47.346	144	58.06	26	35.804	129	15.91	45
Juli 8.0	11.063	131	74.08	295	22.519	164	31.05	65	47.490	179	57.80	23	35.933	162	16.36	46
17.9	11.194	176	71.13	284	22.683	193	31.70	62	47.669	211	57.57	23	36.095	193	16.82	43
27.9	11.370	217	68.29	262	22.876	220	32.32	56	47.880	240	57.34	22	36.288	219	17.25	39
Aug. 6.9	11.587	254	65.67	232	23.096	241	32.88	47	48.120	264	57.12	23	36.507	242	17.64	31
16.9	11.841	287	63.35	193	23.337	261	33.35	34	48.384	284	56.89	25	36.749	262	17.95	20
26.8	12.128	314	61.42	146	23.598	276	33.69	19	48.668	302	56.64	29	37.011	277	18.15	8
Sept. 5.8	12.442	335	59.96	94	23.874	288	33.88	1	48.970	315	56.35	34	37.288	290	18.23	9
15.8	12.777	350	59.02	35	24.162	298	33.89	20	49.285	325	56.01	38	37.578	301	18.14	25
25.8	13.127	358	58.67	25	24.460	304	33.69	39	49.610	332	55.63	43	37.879	307	17.89	42
Okt. 5.7	13.485	358	58.92	87	24.764	305	33.30	59	49.942	335	55.20	47	38.186	310	17.47	60
15.7	13.843	350	59.79	146	25.069	304	32.71	78	50.277	334	54.73	49	38.496	309	16.87	74
25.7	14.193	334	61.25	202	25.373	298	31.93	93	50.611	326	54.24	50	38.805	303	16.13	87
Nov. 4.6	14.527	310	63.27	250	25.671	285	31.00	104	50.937	314	53.74	47	39.108	292	15.26	96
14.6	14.837	275	65.77	291	25.956	266	29.96	112	51.251	294	53.27	42	39.400	273	14.30	101
24.6	15.112	234	68.68	321	26.222	241	28.84	115	51.545	267	52.85	35	39.673	248	13.29	101
Dez. 4.6	15.346	185	71.89	340	26.463	209	27.69	112	51.812	233	52.50	25	39.921	216	12.28	98
14.5	15.531	129	75.29	350	26.672	170	26.57	107	52.045	191	52.25	14	40.137	177	11.30	91
24.5	15.660	70	78.79	346	26.842	126	25.50	97	52.236	143	52.11	3	40.314	132	10.39	80
34.5	15.730		82.25		26.968		24.53		52.379		52.08		40.446		9.59	
Mittl. Ort	11.438		78.71		21.158		27.69		45.917		55.22		34.531		13.46	
sec δ, tg δ	1.370		−0.936		1.015		+0.176		1.105		+0.471		1.026		+0.231	

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Mittlere Zeit Greenw.	257) α Canis maj.*) AR.	Diff.	Dekl.	Diff.	258) 18 Monocerotis AR.	Diff.	Dekl.	Diff.	261) ϑ Geminorum AR.	Diff.	Dekl.	Diff.	262) α Pictoris AR.	Diff.	Dekl.	Diff.
	$6^h 41^m$		−16° 35′		$6^h 43^m$		+2° 30′		$6^h 47^m$		+34° 3′		$6^h 47^m$		−61° 50′	
Jan. 0.5	28.776	74	58.47	243	31.097	100	20.55	136	18.006	132	51.32	59	22.73	0	58.76	372
10.5	28.850	25	60.90	225	31.197	51	19.19	122	18.138	73	51.91	68	22.73	10	62.48	356
20.4	28.875	24	63.15	203	31.248	3	17.97	106	18.211	14	52.59	73	22.63	19	66.04	330
30.4	28.851	70	65.18	175	31.251	44	16.91	88	18.225	42	53.32	74	22.44	27	69.34	295
Feb. 9.4	28.781	111	66.93	146	31.207	86	16.03	70	18.183	94	54.06	70	22.17	34	72.29	255
19.4	28.670	145	68.39	114	31.121	120	15.33	53	18.089	138	54.76	62	21.83	39	74.84	208
29.3	28.525	170	69.53	82	31.001	147	14.80	36	17.951	170	55.38	49	21.44	44	76.92	158
März 10.3	28.355	184	70.35	48	30.854	163	14.44	19	17.781	192	55.87	34	21.00	47	78.50	106
20.3	28.171	190	70.83	16	30.691	169	14.25	4	17.589	200	56.21	17	20.53	48	79.56	52
30.2	27.981	184	70.99	16	30.522	165	14.21	10	17.389	197	56.38	1	20.05	47	80.08	1
Apr. 9.2	27.797	170	70.83	46	30.357	151	14.31	25	17.192	180	56.37	19	19.58	46	80.07	54
19.2	27.627	148	70.37	77	30.206	130	14.56	38	17.012	156	56.18	35	19.12	43	79.53	106
29.2	27.479	119	69.60	104	30.076	101	14.94	52	16.856	121	55.83	50	18.69	38	78.47	153
Mai 9.1	27.360	85	68.56	130	29.975	68	15.46	65	16.735	81	55.33	61	18.31	33	76.94	196
19.1	27.275	47	67.26	152	29.907	31	16.11	77	16.654	37	54.72	70	17.98	27	74.98	237
29.1	27.228	8	65.74	170	29.876	6	16.88	87	16.617	9	54.02	76	17.71	20	72.61	269
Juni 8.1	27.220	31	64.04	185	29.882	45	17.75	95	16.626	56	53.26	80	17.51	13	69.92	296
18.0	27.251	69	62.19	195	29.927	82	18.70	101	16.682	101	52.46	81	17.38	5	66.96	313
28.0	27.320	107	60.24	199	30.009	118	19.71	105	16.783	145	51.65	81	17.33	3	63.83	324
Juli 8.0	27.427	142	58.25	196	30.127	150	20.76	104	16.928	184	50.84	78	17.36	10	60.59	323
17.9	27.569	174	56.29	188	30.277	180	21.80	100	17.112	220	50.06	76	17.46	17	57.36	315
27.9	27.743	202	54.41	172	30.457	207	22.80	90	17.332	251	49.30	73	17.63	25	54.21	294
Aug. 6.9	27.945	226	52.69	149	30.664	229	23.70	78	17.583	280	48.57	69	17.88	32	51.27	265
16.9	28.171	248	51.20	121	30.893	249	24.48	60	17.863	303	47.88	66	18.20	37	48.62	226
26.8	28.419	266	49.99	87	31.142	266	25.08	39	18.166	322	47.22	63	18.57	42	46.36	177
Sept. 5.8	28.685	281	49.12	47	31.408	279	25.47	15	18.488	339	46.59	60	18.99	46	44.59	123
15.8	28.966	290	48.65	5	31.687	290	25.62	12	18.827	351	45.99	57	19.45	50	43.36	61
25.8	29.256	297	48.60	40	31.977	296	25.50	40	19.178	360	45.42	52	19.95	50	42.75	3
Okt. 5.7	29.553	299	49.00	84	32.273	300	25.10	68	19.538	364	44.90	48	20.45	51	42.78	70
15.7	29.852	296	49.84	128	32.573	299	24.42	92	19.902	364	44.42	40	20.96	50	43.48	135
25.7	30.148	287	51.12	166	32.872	293	23.50	116	20.266	358	44.02	32	21.46	48	44.83	197
Nov. 4.6	30.435	272	52.78	200	33.165	282	22.34	134	20.624	346	43.70	20	21.94	43	46.80	252
14.6	30.707	251	54.78	227	33.447	264	21.00	148	20.970	325	43.50	8	22.37	37	49.32	300
24.6	30.958	223	57.05	245	33.711	239	19.52	155	21.295	296	43.42	6	22.74	31	52.32	336
Dez. 4.6	31.181	188	59.50	256	33.950	207	17.97	157	21.591	260	43.48	21	23.05	22	55.68	362
14.5	31.369	148	62.06	258	34.157	170	16.40	153	21.851	214	43.69	37	23.27	14	59.30	376
24.5	31.517	102	64.64	251	34.327	125	14.87	145	22.065	163	44.06	50	23.41	6	63.06	378
34.5	31.619		67.15		34.452		13.42		22.228		44.56		23.47		66.84	
Mittl. Ort	26.661		61.50		28.899		17.63		15.263		48.90		19.82		63.36	
sec δ, tg δ	1.044		−0.298		1.001		+0.044		1.207		+0.676		2.120		−1.869	

*) Ort des Hauptsterns; die jährliche Parallaxe (siehe Erläuterungen) ist bereits berücksichtigt.

Mittlere Zeit Greenw.	265) 15 Lyncis AR.		265) 15 Lyncis Dekl.		266) ϑ Canis majoris AR.		266) ϑ Canis majoris Dekl.		268) ε Canis majoris AR.		268) ε Canis majoris Dekl.		269) ζ Geminorum AR.		269) ζ Geminorum Dekl.	
	$6^h\ 50^m$		$+58°\ 31'$		$6^h\ 50^m$		$-11°\ 55'$		$6^h\ 55^m$		$-28°\ 51'$		$6^h\ 59^m$		$+20°\ 41'$	
Jan. 0.5	$4^s.555$	174	65″.70	198	$19^s.353$	94	54″.40	219	$21^s.562$	81	21″.83	299	$10^s.117$	131	42″.12	29
10.5	4.729	84	67.68	203	19.447	44	56.59	204	21.643	27	24.82	283	10.248	79	41.83	16
20.4	4.813	7	69.71	201	19.491	5	58.63	183	21.670	26	27.65	259	10.327	26	41.67	4
30.4	4.806	94	71.72	188	19.486	52	60.46	159	21.644	76	30.24	230	10.353	26	41.63	6
Feb. 9.4	4.712	173	73.60	170	19.434	93	62.05	132	21.568	121	32.54	196	10.327	73	41.69	12
19.4	4.539	241	75.30	141	19.341	129	63.37	104	21.447	159	34.50	159	10.254	113	41.81	16
29.3	4.298	291	76.71	109	19.212	156	64.41	75	21.288	188	36.09	120	10.141	144	41.97	17
März 10.3	4.007	325	77.80	70	19.056	172	65.16	46	21.100	206	37.29	78	9.997	164	42.14	16
20.3	3.682	340	78.50	29	18.884	180	65.62	18	20.894	215	38.07	37	9.833	174	42.30	13
30.3	3.342	337	78.79	12	18.704	177	65.80	10	20.679	213	38.44	3	9.659	172	42.43	10
Apr. 9.2	3.005	314	78.67	52	18.527	164	65.70	38	20.466	201	38.41	44	9.487	161	42.53	5
19.2	2.691	279	78.15	91	18.363	144	65.32	64	20.265	182	37.97	83	9.326	139	42.58	1
29.2	2.412	228	77.24	124	18.219	118	64.68	89	20.083	154	37.14	119	9.187	112	42.59	3
Mai 9.1	2.184	168	76.00	153	18.101	85	63.79	112	19.929	121	35.95	153	9.075	77	42.56	5
19.1	2.016	100	74.47	177	18.016	50	62.67	132	19.808	84	34.42	182	8.998	39	42.51	6
29.1	1.916	29	72.70	195	17.966	13	61.35	150	19.724	45	32.60	207	8.959	1	42.45	7
Juni 8.1	1.887	44	70.75	206	17.953	26	59.85	163	19.679	3	30.53	228	8.960	41	42.38	6
18.0	1.931	116	68.69	213	17.979	63	58.22	174	19.676	38	28.25	242	9.001	80	42.32	5
28.0	2.047	185	66.56	214	18.042	99	56.48	178	19.714	78	25.83	249	9.081	118	42.27	6
Juli 8.0	2.232	250	64.42	209	18.141	133	54.70	177	19.792	117	23.34	249	9.199	154	42.21	5
18.0	2.482	310	62.33	202	18.274	164	52.93	170	19.909	153	20.85	241	9.353	185	42.16	7
27.9	2.792	364	60.31	189	18.438	193	51.23	157	20.062	187	18.44	224	9.538	214	42.09	10
Aug. 6.9	3.156	411	58.42	174	18.631	217	49.66	138	20.249	218	16.20	201	9.752	239	41.99	14
16.9	3.567	452	56.68	155	18.848	240	48.28	113	20.467	245	14.19	168	9.991	261	41.85	20
26.8	4.019	485	55.13	135	19.088	258	47.15	82	20.712	269	12.51	130	10.252	280	41.65	28
Sept. 5.8	4.504	514	53.78	111	19.346	274	46.33	47	20.981	287	11.21	84	10.532	297	41.37	37
15.8	5.018	534	52.67	86	19.620	286	45.86	8	21.268	303	10.37	34	10.829	308	41.00	47
25.8	5.552	547	51.81	59	19.906	294	45.78	33	21.571	314	10.03	19	11.137	319	40.53	57
Okt. 5.7	6.099	554	51.22	31	20.200	298	46.11	74	21.885	318	10.22	73	11.456	325	39.96	65
15.7	6.653	551	50.91	0	20.498	298	46.85	112	22.203	318	10.95	125	11.781	327	39.31	73
25.7	7.204	539	50.91	30	20.796	292	47.97	149	22.521	310	12.20	174	12.108	324	38.58	77
Nov. 4.7	7.743	517	51.21	62	21.088	280	49.46	180	22.831	295	13.94	217	12.432	314	37.81	79
14.6	8.260	481	51.83	94	21.368	262	51.26	204	23.126	272	16.11	254	12.746	298	37.02	76
24.6	8.741	435	52.77	123	21.630	236	53.30	222	23.398	243	18.65	282	13.044	275	36.26	71
Dez. 4.6	9.176	376	54.00	150	21.866	204	55.52	232	23.641	205	21.47	299	13.319	243	35.55	62
14.5	9.552	304	55.50	173	22.070	164	57.84	233	23.846	160	24.46	307	13.562	204	34.93	51
24.5	9.856	223	57.23	190	22.234	120	60.17	227	24.006	112	27.53	306	13.766	159	34.42	38
34.5	10.079		59.13		22.354		62.44		24.118		30.59		13.925		34.04	
Mittl. Ort	0.443		63.50		17.238		57.50		19.433		25.54		7.688		40.30	
sec δ, tg δ	1.916		+1.634		1.022		−0.211		1.142		−0.551		1.069		+0.378	

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Mittlere Zeit Greenw.	271) γ Canis majoris AR.		Dekl.		273) δ Canis majoris AR.		Dekl.		274) 63 Aurigae AR.		Dekl.		277) λ Geminorum AR.		Dekl.	
	$6^h\ 59^m$		−15° 30′		$7^h\ 4^m$		−26° 15′		$7^h\ 5^m$		+39° 27′		$7^h\ 13^m$		+16° 41′	
Jan. 0.5	59.615	100	27.22	241	60.621	95	29.28	292	55.746	161	32.20	87	18.358	142	35.30	59
10.5	59.715	50	29.63	225	60.716	42	32.20	276	55.907	98	33.07	98	18.500	90	34.71	44
20.5	59.765	0	31.88	205	60.758	11	34.96	255	56.005	35	34.05	104	18.590	38	34.27	30
30.4	59.765	48	33.93	179	60.747	62	37.51	226	56.040	28	35.09	106	18.628	13	33.97	17
Feb. 9.4	59.717	91	35.72	151	60.685	106	39.77	195	56.012	86	36.15	102	18.615	60	33.80	6
19.4	59.626	127	37.23	121	60.579	145	41.72	159	55.926	135	37.17	91	18.555	102	33.74	2
29.3	59.499	156	38.44	89	60.434	175	43.31	120	55.791	174	38.08	76	18.453	133	33.76	8
März 10.3	59.343	174	39.33	59	60.259	195	44.51	82	55.617	200	38.84	56	18.320	156	33.84	11
20.3	59.169	183	39.92	26	60.064	205	45.33	43	55.417	213	39.40	35	18.164	167	33.95	13
30.3	58.986	182	40.18	5	59.859	205	45.76	4	55.204	214	39.75	11	17.997	168	34.08	13
Apr. 9.2	58.804	171	40.13	35	59.654	195	45.80	35	54.990	201	39.86	13	17.829	159	34.21	13
19.2	58.633	152	39.78	64	59.459	176	45.45	73	54.789	178	39.73	35	17.670	141	34.34	12
29.2	58.481	127	39.14	92	59.283	152	44.72	107	54.611	146	39.38	56	17.529	116	34.46	12
Mai 9.2	58.354	96	38.22	117	59.131	120	43.65	140	54.465	106	38.82	73	17.413	84	34.58	11
19.1	58.258	61	37.05	140	59.011	84	42.25	168	54.359	61	38.09	89	17.329	48	34.69	12
29.1	58.197	24	35.65	160	58.927	47	40.57	194	54.298	14	37.20	100	17.281	11	34.81	14
Juni 8.1	58.173	13	34.05	175	58.880	7	38.63	214	54.284	35	36.20	109	17.270	27	34.95	13
18.0	58.186	51	32.30	186	58.873	33	36.49	228	54.319	83	35.11	114	17.297	64	35.08	15
28.0	58.237	87	30.44	192	58.906	71	34.21	236	54.402	129	33.97	116	17.361	101	35.23	14
Juli 8.0	58.324	122	28.52	192	58.977	110	31.85	237	54.531	172	32.81	117	17.462	136	35.37	13
18.0	58.446	154	26.60	185	59.087	144	29.48	230	54.703	211	31.64	116	17.598	167	35.50	11
27.9	58.600	184	24.75	172	59.231	178	27.18	216	54.914	247	30.48	112	17.765	196	35.61	5
Aug. 6.9	58.784	210	23.03	152	59.409	208	25.02	193	55.161	279	29.36	108	17.961	221	35.66	1
16.9	58.994	234	21.51	126	59.617	235	23.09	163	55.440	307	28.28	103	18.182	244	35.65	11
26.8	59.228	254	20.25	94	59.852	259	21.46	126	55.747	330	27.25	98	18.426	264	35.54	22
Sept. 5.8	59.482	272	19.31	56	60.111	280	20.20	83	56.077	351	26.27	91	18.690	282	35.32	35
15.8	59.754	285	18.75	15	60.391	295	19.37	35	56.428	368	25.36	83	18.972	296	34.97	48
25.8	60.039	296	18.60	28	60.686	308	19.02	16	56.796	380	24.53	74	19.268	308	34.49	62
Okt. 5.7	60.335	301	18.88	72	60.994	314	19.18	67	57.176	388	23.79	64	19.576	317	33.87	76
15.7	60.636	302	19.60	115	61.308	315	19.85	120	57.564	392	23.15	51	19.893	320	33.11	87
25.7	60.938	298	20.75	154	61.623	310	21.05	166	57.956	388	22.64	37	20.213	321	32.24	96
Nov. 4.7	61.236	287	22.29	188	61.933	298	22.71	209	58.344	378	22.27	20	20.534	313	31.28	100
14.6	61.523	269	24.17	216	62.231	278	24.80	245	58.722	359	22.07	1	20.847	300	30.28	102
24.6	61.792	243	26.33	236	62.509	250	27.25	273	59.081	331	22.06	18	21.147	278	29.26	99
Dez. 4.6	62.035	211	28.69	249	62.759	214	29.98	290	59.412	294	22.24	39	21.425	249	28.27	92
14.5	62.246	172	31.18	252	62.973	173	32.88	299	59.706	247	22.63	59	21.674	212	27.35	81
24.5	62.418	127	33.70	249	63.146	124	35.87	298	59.953	195	23.22	76	21.886	168	26.54	69
34.5	62.545		36.19		63.270		38.85		60.148		23.98		22.054		25.85	
Mittl. Ort	57.514		30.39		58.516		32.99		52.818		31.37		16.005		34.13	
sec δ, tg δ	1.038		−0.277		1.115		−0.493		1.295		+0.823		1.044		+0.300	

Mittlere Zeit Greenw.	278) π Argus AR.	Δ	278) π Argus Dekl.	Δ	279) δ Geminorum AR.	Δ	279) δ Geminorum Dekl.	Δ	280) 19 Lyncis sq. AR.	Δ	280) 19 Lyncis sq. Dekl.	Δ	281) δ Volantis AR.	Δ	281) δ Volantis Dekl.	Δ
	$7^h\ 14^m$		−36° 56′		$7^h\ 15^m$		+22° 8′		$7^h\ 16^m$		+55° 26′		$7^h\ 16^m$		−67° 47′	
Jan. 0.5	12.678	94	41.36	333	8.932	149	17.72	25	4.975	209	27.02	174	55.90	4	66.36	384
10.5	12.772	36	44.69	321	9.081	96	17.47	11	5.184	126	28.76	186	55.94	8	70.20	375
20.5	12.808	23	47.90	299	9.177	42	17.36	3	5.310	41	30.62	190	55.86	19	73.95	357
30.4	12.785	78	50.89	271	9.219	11	17.39	14	5.351	42	32.52	186	55.67	30	77.52	328
Feb. 9.4	12.707	128	53.60	236	9.208	60	17.53	21	5.309	120	34.38	174	55.37	39	80.80	293
19.4	12.579	170	55.96	196	9.148	103	17.74	25	5.189	188	36.12	153	54.98	46	83.73	251
29.4	12.409	204	57.92	155	9.045	136	17.99	27	5.001	242	37.65	126	54.52	53	86.24	205
März 10.3	12.205	227	59.47	110	8.909	160	18.26	25	4.759	281	38.91	94	53.99	57	88.29	154
20.3	11.978	239	60.57	65	8.749	173	18.51	21	4.478	302	39.85	57	53.42	59	89.83	102
30.3	11.739	242	61.22	19	8.576	173	18.72	16	4.176	307	40.42	18	52.83	60	90.85	49
Apr. 9.2	11.497	233	61.41	25	8.403	165	18.88	9	3.869	294	40.60	21	52.23	60	91.34	6
19.2	11.264	215	61.16	70	8.238	146	18.97	3	3.575	268	40.39	58	51.63	57	91.28	58
29.2	11.049	191	60.46	111	8.092	120	19.00	2	3.307	228	39.81	93	51.06	53	90.70	109
Mai 9.2	10.858	158	59.35	150	7.972	88	18.98	7	3.079	178	38.88	123	50.53	47	89.61	156
19.1	10.700	122	57.85	185	7.884	52	18.91	11	2.901	121	37.65	150	50.06	41	88.05	201
29.1	10.578	81	56.00	215	7.832	13	18.80	13	2.780	59	36.15	171	49.65	34	86.04	239
Juni 8.1	10.497	40	53.85	239	7.819	27	18.67	16	2.721	5	34.44	187	49.31	25	83.65	271
18.1	10.457	4	51.46	259	7.846	66	18.51	16	2.726	71	32.57	199	49.06	16	80.94	297
28.0	10.461	48	48.87	269	7.912	104	18.35	18	2.797	133	30.58	204	48.90	7	77.97	312
Juli 8.0	10.509	90	46.18	272	8.016	139	18.17	20	2.930	193	28.54	206	48.83	3	74.85	321
18.0	10.599	132	43.46	267	8.155	171	17.97	21	3.123	250	26.48	203	48.86	13	71.64	318
27.9	10.731	171	40.79	252	8.326	202	17.76	25	3.373	300	24.45	196	48.99	22	68.46	306
Aug. 6.9	10.902	207	38.27	229	8.528	227	17.51	30	3.673	347	22.49	186	49.21	30	65.40	283
16.9	11.109	239	35.98	198	8.755	252	17.21	36	4.020	388	20.63	173	49.51	39	62.57	250
26.9	11.348	270	34.00	158	9.007	273	16.85	44	4.408	424	18.90	157	49.90	46	60.07	208
Sept. 5.8	11.618	295	32.42	111	9.280	290	16.41	52	4.832	454	17.33	140	50.36	53	57.99	156
15.8	11.913	316	31.31	58	9.570	306	15.89	60	5.286	479	15.93	118	50.89	58	56.43	99
25.8	12.229	331	30.73	1	9.876	319	15.29	69	5.765	498	14.75	95	51.47	61	55.44	35
Okt. 5.8	12.560	340	30.72	56	10.195	327	14.60	77	6.263	511	13.80	70	52.08	62	55.09	31
15.7	12.900	342	31.28	115	10.522	332	13.83	82	6.774	515	13.10	42	52.70	63	55.40	97
25.7	13.242	337	32.43	170	10.854	332	13.01	85	7.289	512	12.68	13	53.33	60	56.37	163
Nov. 4.7	13.579	322	34.13	220	11.186	324	12.16	86	7.801	499	12.55	19	53.93	56	58.00	222
14.6	13.901	300	36.33	262	11.510	311	11.30	80	8.300	473	12.74	51	54.49	49	60.22	275
24.6	14.201	268	38.95	297	11.821	290	10.50	74	8.773	436	13.25	83	54.98	42	62.97	320
Dez. 4.6	14.469	228	41.92	321	12.111	259	9.76	63	9:209	387	14.08	112	55.40	32	66.17	352
14.6	14.697	181	45.13	335	12.370	222	9.13	50	9.596	326	15.20	140	55.72	22	69.69	375
24.5	14.878	128	48.48	338	12.592	176	8.63	35	9.922	253	16.60	162	55.94	11	73.44	384
34.5	15.006		51.86		12.768		8.28		10.175		18.22		56.05		77.28	
Mittl. Ort	10.521		45.85		6.484		16.93		1.140		27.48		52.65		72.69	
sec δ, tg δ	1.251		−0.752		1.080		+0.407		1.763		+1.452		2.647		−2.451	

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	282) ι Geminorum				284) Gr. 1308				285) β Canis minoris				286) ρ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$7^h 20^m$		+27° 57′		$7^h 22^m$		+68° 38′		$7^h 22^m$		+8° 27′		$7^h 23^m$		+31° 56′	
	s		″		s		″		s		″		s		″	
Jan. 0.5	33.283	161	57.94	9	14.74	29	18.69	236	38.018	143	35.32	113	45.327	170	69.23	35
10.5	33.444	106	58.03	25	15.03	17	21.05	248	38.161	94	34.19	98	45.497	114	69.58	49
20.5	33.550	49	58.28	37	15.20	3	23.53	250	38.255	42	33.21	81	45.611	54	70.07	61
30.4	33.599	6	58.65	46	15.23	9	26.03	242	38.297	7	32.40	64	45.665	4	70.68	70
Feb. 9.4	33.593	59	59.11	51	15.14	21	28.45	223	38.290	54	31.76	48	45.661	58	71.38	72
19.4	33.534	104	59.62	51	14.93	31	30.68	197	38.236	93	31.28	33	45.603	106	72.10	70
29.4	33.430	140	60.13	48	14.62	40	32.65	160	38.143	126	30.95	19	45.497	144	72.80	63
März 10.3	33.290	166	60.61	41	14.22	45	34.25	118	38.017	149	30.76	8	45.353	171	73.43	53
20.3	33.124	180	61.02	32	13.77	50	35.43	72	37.868	161	30.68	2	45.182	187	73.96	40
30.3	32.944	183	61.34	20	13.27	51	36.15	22	37.707	163	30.70	11	44.995	191	74.36	24
Apr. 9.2	32.761	174	61.54	7	12.76	49	36.37	27	37.544	156	30.81	19	44.804	182	74.60	7
19.2	32.587	156	61.61	5	12.27	46	36.10	75	37.388	140	31.00	26	44.622	165	74.67	9
29.2	32.431	130	61.56	16	11.81	40	35.35	119	37.248	117	31.26	32	44.457	137	74.58	24
Mai 9.2	32.301	97	61.40	26	11.41	33	34.16	159	37.131	88	31.58	40	44.320	104	74.34	38
19.1	32.204	59	61.14	35	11.08	25	32.57	193	37.043	56	31.98	45	44.216	65	73.96	50
29.1	32.145	20	60.79	41	10.83	15	30.64	221	36.987	20	32.43	51	44.151	24	73.46	59
Juni 8.1	32.125	22	60.38	47	10.68	6	28.43	242	36.967	16	32.94	55	44.127	18	72.87	67
18.1	32.147	62	59.91	51	10.62	4	26.01	257	36.983	52	33.49	59	44.145	61	72.20	73
28.0	32.209	102	59.40	53	10.66	15	23.44	266	37.035	86	34.08	59	44.206	102	71.47	77
Juli 8.0	32.311	140	58.87	56	10.81	24	20.78	267	37.121	120	34.67	59	44.308	141	70.70	79
18.0	32.451	174	58.31	58	11.05	33	18.11	264	37.241	150	35.26	54	44.449	177	69.91	82
27.9	32.625	205	57.73	60	11.38	41	15.47	254	37.391	178	35.80	47	44.626	210	69.09	83
Aug. 6.9	32.830	233	57.13	63	11.79	49	12.93	240	37.569	204	36.27	37	44.836	240	68.26	84
16.9	33.063	259	56.50	65	12.28	56	10.53	222	37.773	228	36.64	22	45.076	266	67.42	85
26.9	33.322	282	55.85	69	12.84	62	8.31	198	38.001	247	36.86	6	45.342	290	66.57	85
Sept. 5.8	33.604	301	55.16	74	13.46	67	6.33	172	38.248	267	36.92	14	45.632	311	65.72	87
15.8	33.905	318	54.42	76	14.13	71	4.61	142	38.515	282	36.78	34	45.943	330	64.85	87
25.8	34.223	331	53.66	80	14.84	74	3.19	108	38.797	294	36.44	57	46.273	343	63.98	86
Okt. 5.8	34.554	342	52.86	81	15.58	76	2.11	73	39.091	305	35.87	79	46.616	355	63.12	84
15.7	34.896	347	52.05	81	16.34	77	1.38	34	39.396	310	35.08	99	46.971	361	62.28	78
25.7	35.243	348	51.24	77	17.11	77	1.04	6	39.706	311	34.09	116	47.332	362	61.50	72
Nov. 4.7	35.591	342	50.47	72	17.88	73	1.10	47	40.017	306	32.93	129	47.694	356	60.78	61
14.6	35.933	327	49.75	61	18.61	70	1.57	89	40.323	293	31.64	138	48.050	342	60.17	48
24.6	36.260	307	49.14	50	19.31	64	2.46	129	40.616	274	30.26	141	48.392	319	59.69	32
Dez. 4.6	36.567	275	48.64	35	19.95	57	3.75	165	40.890	246	28.85	140	48.711	289	59.37	15
14.6	36.842	236	48.29	18	20.52	47	5.40	197	41.136	211	27.45	133	49.000	248	59.22	4
24.5	37.078	190	48.11	1	20.99	36	7.37	223	41.347	168	26.12	122	49.248	200	59.26	23
34.5	37.268		48.10		21.35		9.60		41.515		24.90		49.448		59.49	
Mittl. Ort	30.713		57.81		9.10		19.96		35.786		34.10		42.655		69.56	
sec δ, tg δ	1.132		+0.531		2.745		+2.557		1.011		+0.149		1.179		+0.624	

Mittlere Zeit Greenw.	287) α Geminorum [1) AR.		Dekl.		289) 25 Monocerotis AR.		Dekl.		291) α Canis min. [2) AR.		Dekl.		292) 24 Lyncis AR.		Dekl.	
	7h 29m		+32° 4′		7h 33m		−3° 55′		7h 34m		+5° 26′		7h 35m		+58° 54′	
Jan. 0.5	17.118	175	26.00	32	8.243	142	19.60	189	56.468	147	28.83	137	58.590	256	26.96	183
10.5	17.293	119	26.32	48	8.385	94	21.49	174	56.615	98	27.46	121	58.846	167	28.79	200
20.5	17.412	60	26.80	61	8.479	44	23.23	156	56.713	48	26.25	103	59.013	73	30.79	208
30.4	17.472	1	27.41	70	8.523	— 6	24.79	135	56.761	— 2	25.22	85	59.086	— 20	32.87	207
Feb. 9.4	17.473	— 53	28.11	73	8.517	51	26.14	112	56.759	49	24.37	66	59.066	106	34.94	197
19.4	17.420	102	28.84	72	8.466	92	27.26	89	56.710	90	23.71	47	58.960	185	36.91	179
29.4	17.318	141	29.56	66	8.374	124	28.15	65	56.620	122	23.24	32	58.775	250	38.70	152
März 10.3	17.177	170	30.22	56	8.250	147	28.80	44	56.498	145	22.92	16	58.525	297	40.22	119
20.3	17.007	186	30.78	42	8.103	161	29.24	21	56.353	160	22.76	4	58.228	327	41.41	81
30.3	16.821	191	31.20	27	7.942	165	29.45	1	56.193	163	22.72	— 8	57.901	340	42.22	40
Apr. 9.3	16.630	184	31.47	10	7.777	159	29.46	— 20	56.030	157	22.80	19	57.561	334	42.62	— 2
19.2	16.446	167	31.57	— 7	7.618	146	29.26	38	55.873	143	22.99	28	57.227	311	42.60	43
29.2	16.279	141	31.50	22	7.472	125	28.88	56	55.730	121	23.27	38	56.916	274	42.17	83
Mai 9.2	16.138	108	31.28	37	7.347	98	28.32	72	55.609	94	23.65	46	56.642	225	41.34	118
19.1	16.030	70	30.91	49	7.249	68	27.60	88	55.515	62	24.11	53	56.417	168	40.16	149
29.1	15.960	30	30.42	61	7.181	35	26.72	102	55.453	29	24.64	61	56.249	104	38.67	176
Juni 8.1	15.930	— 12	29.81	67	7.146	1	25.70	112	55.424	— 7	25.25	66	56.145	35	36.91	198
18.1	15.942	54	29.14	74	7.145	— 34	24.58	120	55.431	41	25.91	69	56.110	— 32	34.93	213
28.0	15.996	95	28.40	79	7.179	67	23.38	124	55.472	76	26.60	70	56.142	101	32.80	223
Juli 8.0	16.091	135	27.61	83	7.246	100	22.14	125	55.548	108	27.30	69	56.243	168	30.57	229
18.0	16.226	170	26.78	85	7.346	131	20.89	119	55.656	139	27.99	64	56.411	230	28.28	228
28.0	16.396	204	25.93	87	7.477	160	19.70	111	55.795	167	28.63	56	56.641	289	26.00	226
Aug. 6.9	16.600	233	25.06	89	7.637	186	18.59	97	55.962	193	29.19	44	56.930	342	23.74	217
16.9	16.833	262	24.17	90	7.823	211	17.62	76	56.155	217	29.63	29	57.272	391	21.57	205
26.9	17.095	285	23.27	91	8.034	233	16.86	53	56.372	238	29.92	10	57.663	434	19.52	190
Sept. 5.8	17.380	308	22.36	93	8.267	253	16.33	25	56.610	258	30.02	— 12	58.097	472	17.62	171
15.8	17.688	325	21.43	92	8.520	271	16.08	— 7	56.868	274	29.90	35	58.569	504	15.91	149
25.8	18.013	342	20.51	92	8.791	286	16.15	39	57.142	289	29.55	60	59.073	530	14.42	125
Okt. 5.8	18.355	353	19.59	90	9.077	296	16.54	74	57.431	299	28.95	85	59.603	549	13.17	97
15.7	18.708	361	18.69	85	9.373	304	17.28	106	57.730	307	28.10	108	60.152	560	12.20	66
25.7	19.069	363	17.84	77	9.677	306	18.34	136	58.037	308	27.02	129	60.712	560	11.54	33
Nov. 4.7	19.432	357	17.07	66	9.983	301	19.70	161	58.345	305	25.73	145	61.272	552	11.21	— 1
14.7	19.789	345	16.41	53	10.284	290	21.31	182	58.650	293	24.28	156	61.824	528	11.22	38
24.6	20.134	324	15.88	37	10.574	271	23.13	196	58.943	275	22.72	162	62.352	493	11.60	74
Dez. 4.6	20.458	293	15.51	19	10.845	244	25.09	202	59.218	248	21.10	162	62.845	443	12.34	110
14.6	20.751	253	15.32	— 1	11.089	209	27.11	203	59.466	214	19.48	156	63.288	379	13.44	141
24.5	21.004	205	15.33	20	11.298	168	29.14	196	59.680	172	17.92	146	63.667	304	14.85	169
34.5	21.209		15.53		11.466		31.10		59.852		16.46		63.971		16.54	
Mittl. Ort	14.448		26.75		6.137		21.47		54.281		27.97		54.451		29.55	
sec δ, tg δ	1.180		+0.627		1.002		−0.069		1.005		+0.095		1.937		+1.658	

[1]) AR. der Mitte, Dekl. des folgenden helleren Sterns.
[2]) Ort des Hauptsterns; die jährliche Parallaxe (siehe Erläuterungen) ist bereits berücksichtigt.

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	294) ϰ Geminorum				295) β Geminorum				296) π Geminorum				297) ξ Volantis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	7h 39m		+24° 35′		7h 40m		+28° 13′		7h 42m		+33° 37′		7h 42m		−72° 24′	
Jan. 0.5	25.203	177	60.49	19	13.249	181	46.90	3	8.325	192	20.43	36	55.17	10	8.37	386
10.5	25.380	123	60.30	1	13.430	126	46.93	22	8.517	136	20.79	55	55.27	4	12.23	385
20.5	25.503	68	60.29	15	13.556	70	47.15	36	8.653	75	21.34	69	55.23	18	16.08	373
30.5	25.571	13	60.44	27	13.626	12	47.51	48	8.728	15	22.03	79	55.05	32	19.81	352
Feb. 9.4	25.584	39	60.71	36	13.638	42	47.99	56	8.743	42	22.82	84	54.73	43	23.33	321
19.4	25.545	86	61.07	42	13.596	89	48.55	59	8.701	93	23.66	83	54.30	54	26.54	286
29.4	25.459	124	61.49	43	13.507	128	49.14	57	8.608	134	24.49	78	53.76	62	29.40	242
März 10.3	25.335	151	61.92	41	13.379	158	49.71	51	8.474	166	25.27	68	53.14	68	31.82	195
20.3	25.184	169	62.33	35	13.221	175	50.22	43	8.308	185	25.95	53	52.46	73	33.77	145
30.3	25.015	174	62.68	28	13.046	182	50.65	31	8.123	192	26.48	36	51.73	75	35.22	93
Apr. 9.3	24.841	169	62.96	19	12.864	177	50.96	18	7.931	188	26.84	18	50.98	76	36.15	40
19.2	24.672	155	63.15	9	12.687	162	51.14	5	7.743	173	27.02	0	50.22	73	36.55	14
29.2	24.517	133	63.24	0	12.525	140	51.19	8	7.570	149	27.02	19	49.49	70	36.41	67
Mai 9.2	24.384	104	63.24	9	12.385	109	51.11	19	7.421	119	26.83	35	48.79	65	35.74	117
19.2	24.280	70	63.15	16	12.276	75	50.92	30	7.302	82	26.48	51	48.14	58	34.57	164
29.1	24.210	33	62.99	23	12.201	38	50.62	40	7.220	42	25.97	63	47.56	50	32.93	207
Juni 8.1	24.177	5	62.76	29	12.163	2	50.22	47	7.178	1	25.34	74	47.06	40	30.86	245
18.1	24.182	43	62.47	33	12.165	42	49.75	53	7.177	41	24.60	83	46.66	30	28.41	275
28.0	24.225	81	62.14	37	12.207	81	49.22	58	7.218	82	23.77	90	46.36	19	25.66	297
Juli 8.0	24.306	116	61.77	41	12.288	117	48.64	64	7.300	121	22.87	95	46.17	7	22.69	312
18.0	24.422	150	61.36	46	12.405	152	48.00	67	7.421	159	21.92	98	46.10	5	19.57	317
28.0	24.572	182	60.90	50	12.557	185	47.33	71	7.580	193	20.94	102	46.15	18	16.40	311
Aug. 6.9	24.754	209	60.40	55	12.742	214	46.62	75	7.773	224	19.92	105	46.33	29	13.29	295
16.9	24.963	236	59.85	62	12.956	241	45.87	79	7.997	254	18.87	106	46.62	40	10.34	269
26.9	25.199	260	59.23	69	13.197	266	45.08	84	8.251	279	17.81	107	47.02	51	7.65	232
Sept. 5.9	25.459	281	58.54	76	13.463	288	44.24	89	8.530	304	16.74	108	47.53	59	5.33	186
15.8	25.740	300	57.78	83	13.751	307	43.35	93	8.834	324	15.66	108	48.12	68	3.47	132
25.8	26.040	317	56.95	90	14.058	325	42.42	96	9.158	342	14.58	106	48.80	72	2.15	71
Okt. 5.8	26.357	329	56.05	96	14.383	338	41.46	98	9.500	356	13.52	101	49.52	77	1.44	7
15.7	26.686	339	55.09	98	14.721	346	40.48	97	9.856	367	12.51	96	50.29	77	1.37	60
25.7	27.025	342	54.11	100	15.067	351	39.51	94	10.223	370	11.55	87	51.06	75	1.97	127
Nov. 4.7	27.367	339	53.11	96	15.418	349	38.57	87	10.593	368	10.68	74	51.81	72	3.24	189
14.7	27.706	330	52.15	89	15.767	338	37.70	77	10.961	357	9.94	59	52.53	65	5.13	247
24.6	28.036	310	51.26	78	16.105	319	36.93	63	11.318	338	9.35	40	53.18	56	7.60	296
Dez. 4.6	28.346	284	50.48	65	16.424	291	36.30	46	11.656	308	8.95	20	53.74	45	10.56	336
14.6	28.630	248	49.83	48	16.715	254	35.84	28	11.964	269	8.75	1	54.19	32	13.92	365
24.6	28.878	204	49.35	31	16.969	209	35.56	9	12.233	222	8.76	23	54.51	19	17.57	381
34.5	29.082		49.04		17.178		35.47		12.455		8.99		54.70		21.38	
Mittl. Ort	22.732		61.44		10.695		48.19		5.627		22.27		51.55		16.25	
sec δ, tg δ	1.100		+0.458		1.135		+0.537		1.201		+0.665		3.308		−3.153	

Mittlere Zeit Greenw.	300) Gr. 1374				303) χ Argus				305) χ Geminorum				306) ζ Argus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$7^h\,50^m$		+74° 8′		$7^h\,54^m$		−52° 45′		$7^h\,58^m$		+28° 1′		$8^h\,0^m$		−39° 45′	
Jan. 0.5	17.18s	44	34.44″	244	40.924s	139	16.40″	378	24.240s	201	48.22″	5	39.917s	152	51.69″	350
10.5	17.62	28	36.88	264	41.063	65	20.18	374	24.441	147	48.17	—15	40.069	92	55.19	345
20.5	17.90	12	39.52	272	41.128	—9	23.92	362	24.588	90	48.32	32	40.161	30	58.64	330
30.5	18.02	—6	42.24	269	41.119	82	27.54	340	24.678	32	48.64	47	40.191	—29	61.94	309
Feb. 9.4	17.96	21	44.93	256	41.037	149	30.94	309	24.710	—22	49.11	57	40.162	86	65.03	279
19.4	17.75	37	47.49	232	40.888	207	34.03	273	24.688	72	49.68	62	40.076	135	67.82	244
29.4	17.38	49	49.81	197	40.681	256	36.76	232	24.616	114	50.30	63	39.941	176	70.26	205
März 10.4	16.89	58	51.78	156	40.425	293	39.08	185	24.502	145	50.93	59	39.765	207	72.31	163
20.3	16.31	65	53.34	108	40.132	318	40.93	136	24.357	166	51.52	52	39.558	229	73.94	118
30.3	15.66	69	54.42	57	39.814	331	42.29	86	24.191	176	52.04	41	39.329	240	75.12	72
Apr. 9.3	14.97	69	54.99	4	39.483	331	43.15	35	24.015	175	52.45	29	39.089	240	75.84	26
19.2	14.28	66	55.03	—50	39.152	322	43.50	—17	23.840	164	52.74	15	38.849	231	76.10	—19
29.2	13.62	60	54.53	99	38.830	302	43.33	66	23.676	144	52.89	1	38.618	215	75.91	64
Mai 9.2	13.02	53	53.54	146	38.528	273	42.67	114	23.532	117	52.90	—11	38.403	191	75.27	106
19.2	12.49	43	52.08	187	38.255	236	41.53	158	23.415	86	52.79	23	38.212	160	74.21	146
29.1	12.06	32	50.21	222	38.019	195	39.95	199	23.329	50	52.56	35	38.052	127	72.75	182
Juni 8.1	11.74	20	47.99	251	37.824	147	37.96	234	23.279	13	52.21	44	37.925	89	70.93	212
18.1	11.54	7	45.48	273	37.677	96	35.62	263	23.266	—25	51.77	52	37.836	49	68.81	237
28.1	11.47	—6	42.75	287	37.581	42	32.99	283	23.291	62	51.25	59	37.787	7	66.44	255
Juli 8.0	11.53	19	39.88	295	37.539	—14	30.16	297	23.353	99	50.66	66	37.780	—35	63.89	266
18.0	11.72	31	36.93	297	37.553	69	27.19	300	23.452	134	50.00	72	37.815	77	61.23	268
28.0	12.03	43	33.96	292	37.622	125	24.19	295	23.586	166	49.28	77	37.892	120	58.55	262
Aug. 6.9	12.46	54	31.04	282	37.747	180	21.24	278	23.752	197	48.51	84	38.012	160	55.93	246
16.9	13.00	64	28.22	265	37.927	233	18.46	252	23.949	225	47.67	89	38.172	199	53.47	221
26.9	13.64	73	25.57	243	38.160	281	15.94	216	24.174	251	46.78	95	38.371	236	51.26	187
Sept. 5.9	14.37	81	23.14	218	38.441	325	13.78	172	24.425	275	45.83	101	38.607	270	49.39	145
15.8	15.18	88	20.96	188	38.766	364	12.06	119	24.700	298	44.82	107	38.877	300	47.94	96
25.8	16.06	94	19.08	152	39.130	395	10.87	60	24.998	316	43.75	111	39.177	326	46.98	42
Okt. 5.8	17.00	97	17.56	114	39.525	417	10.27	—3	25.314	334	42.64	113	39.503	345	46.56	—17
15.8	17.97	100	16.42	72	39.942	429	10.30	68	25.648	346	41.51	113	39.848	357	46.73	76
25.7	18.97	99	15.70	28	40.371	429	10.98	131	25.994	353	40.38	109	40.205	362	47.49	135
Nov. 4.7	19.96	99	15.42	—18	40.800	418	12.29	192	26.347	354	39.29	103	40.567	357	48.84	190
14.7	20.95	94	15.60	66	41.218	394	14.21	248	26.701	346	38.26	92	40.924	342	50.74	239
24.6	21.89	87	16.26	112	41.612	358	16.69	294	27.047	331	37.34	78	41.266	316	53.13	282
Dez. 4.6	22.76	78	17.38	155	41.970	309	19.63	332	27.378	306	36.56	60	41.582	282	55.95	314
14.6	23.54	67	18.93	194	42.279	250	22.95	359	27.684	271	35.96	40	41.864	238	59.09	336
24.6	24.21	53	20.87	228	42.529	184	26.54	374	27.955	228	35.56	20	42.102	185	62.45	348
34.5	24.74		23.15		42.713		30.28		28.183		35.36		42.287		65.93	
Mittl. Ort	9.96		38.89		38.628		23.35		21.724		50.79		37.857		57.46	
sec δ, tg δ	3.660		+3.521		1.652		−1.315		1.133		+0.532		1.301		−0.832	

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Mittlere Zeit Greenw.	307) 27 Lyncis AR.		307) 27 Lyncis Dekl.		308) ι Navis AR.		308) ι Navis Dekl.		309) γ Argus AR.		309) γ Argus Dekl.		310) Br. 1147 AR.		310) Br. 1147 Dekl.	
	$8^h\ 2^m$		+51° 44′		$8^h\ 3^m$		−24° 3′		$8^h\ 6^m$		−47° 5′		$8^h\ 9^m$		+76° 0′	
Jan. 0.6	12.216	265	54.83	131	59.956	160	37.62	295	58.726	160	12.08	368	9.31	55	48.00	239
10.5	12.481	191	56.14	155	60.116	110	40.57	287	58.886	92	15.76	366	9.86	38	50.39	264
20.5	12.672	112	57.69	170	60.226	55	43.44	270	58.978	26	19.42	355	10.24	19	53.03	277
30.5	12.784	32	59.39	178	60.281	3	46.14	247	59.004	41	22.97	334	10.43	0	55.80	279
Feb. 9.5	12.816	43	61.17	178	60.284	46	48.61	221	58.963	103	26.31	305	10.43	19	58.59	269
19.4	12.773	114	62.95	169	60.238	91	50.82	189	58.860	157	29.36	270	10.24	36	61.28	250
29.4	12.659	173	64.64	152	60.147	129	52.71	155	58.703	204	32.06	231	9.88	51	63.78	218
März 10.4	12.486	219	66.16	129	60.018	157	54.26	120	58.499	240	34.37	187	9.37	63	65.96	178
20.3	12.267	252	67.45	99	59.861	175	55.46	83	58.259	264	36.24	140	8.74	71	67.74	132
30.3	12.015	268	68.44	66	59.686	186	56.29	46	57.995	278	37.64	93	8.03	77	69.06	80
Apr. 9.3	11.747	269	69.10	31	59.500	185	56.75	10	57.717	281	38.57	43	7.26	79	69.86	27
19.3	11.478	257	69.41	6	59.315	177	56.85	26	57.436	274	39.00	6	6.47	77	70.13	27
29.2	11.221	233	69.35	41	59.138	161	56.59	60	57.162	257	38.94	54	5.70	72	69.86	80
Mai 9.2	10.988	196	68.94	75	58.977	139	55.99	93	56.905	234	38.40	100	4.98	64	69.06	130
19.2	10.792	154	68.19	105	58.838	112	55.06	123	56.671	202	37.40	144	4.34	55	67.76	174
29.2	10.638	104	67.14	132	58.726	83	53.83	150	56.469	166	35.96	182	3.79	43	66.02	214
Juni 8.1	10.534	52	65.82	155	58.643	50	52.33	173	56.303	126	34.14	218	3.36	30	63.88	246
18.1	10.482	3	64.27	174	58.593	16	50.60	191	56.177	81	31.96	246	3.06	17	61.42	272
28.1	10.485	58	62.53	188	58.577	19	48.69	204	56.096	36	29.50	267	2.89	2	58.70	292
Juli 8.0	10.543	111	60.65	198	58.596	54	46.65	211	56.060	13	26.83	281	2.87	12	55.78	304
18.0	10.654	162	58.67	204	58.650	88	44.54	211	56.073	61	24.02	286	2.99	26	52.74	309
28.0	10.816	211	56.63	207	58.738	121	42.43	202	56.134	109	21.16	282	3.25	40	49.65	308
Aug. 7.0	11.027	257	54.56	205	58.859	154	40.41	188	56.243	157	18.34	267	3.65	53	46.57	301
16.9	11.284	299	52.51	201	59.013	184	38.53	165	56.400	204	15.67	244	4.18	65	43.56	287
26.9	11.583	338	50.50	194	59.197	214	36.88	134	56.604	247	13.23	210	4.83	76	40.69	269
Sept. 5.9	11.921	373	48.56	183	59.411	241	35.54	98	56.851	288	11.13	168	5.59	85	38.00	244
15.9	12.294	405	46.73	169	59.652	266	34.56	56	57.139	323	9.45	118	6.44	94	35.56	215
25.8	12.699	433	45.04	152	59.918	287	34.00	8	57.462	354	8.27	61	7.38	101	33.41	181
Okt. 5.8	13.132	454	43.52	132	60.205	305	33.92	40	57.816	377	7.66	1	8.39	107	31.60	142
15.8	13.586	471	42.20	108	60.510	317	34.32	90	58.193	391	7.65	62	9.46	110	30.18	100
25.7	14.057	480	41.12	82	60.827	324	35.22	139	58.584	397	8.27	124	10.56	111	29.18	55
Nov. 4.7	14.537	479	40.30	51	61.151	322	36.61	183	58.981	391	9.51	183	11.67	111	28.63	7
14.7	15.016	468	39.79	19	61.473	313	38.44	223	59.372	374	11.34	237	12.78	107	28.56	43
24.7	15.484	446	39.60	16	61.786	294	40.67	254	59.746	345	13.71	284	13.85	101	28.99	92
Dez. 4.6	15.930	410	39.76	50	62.080	267	43.21	277	60.091	306	16.55	320	14.86	92	29.91	139
14.6	16.340	362	40.26	83	62.347	232	45.98	292	60.397	256	19.75	348	15.78	79	31.30	183
24.6	16.702	302	41.09	115	62.579	189	48.90	297	60.653	198	23.23	364	16.57	65	33.13	220
34.6	17.004		42.24		62.768		51.87		60.851		26.87		17.22		35.33	
Mittl. Ort	8.740		59.72		57.977		41.46		56.596		18.85		1.36		54.58	
sec δ, tg δ	1.615		+1.269		1.095		−0.446		1.469		−1.076		4.138		+4.015	

Mittlere Zeit Greenw.	311) 20 Navis				312) β Cancri				314) 31 Lyncis				315) ε Argus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$8^h\ 9^m$		$-15°\ 31'$		$8^h\ 11^m$		$+9°\ 26'$		$8^h\ 17^m$		$+43°\ 27'$		$8^h\ 20^m$		$-59°\ 14'$	
Jan. 0.6	30.307	170	61.48	259	59.836	191	41.68	125	8.401	254	25.00	77	49.879	191	11.05	383
10.5	30.477	122	64.07	247	60.027	142	40.43	106	8.655	192	25.77	101	50.070	105	14.88	389
20.5	30.599	70	66.54	230	60.169	92	39.37	87	8.847	125	26.78	122	50.175	18	18.77	382
30.5	30.669	19	68.84	209	60.261	40	38.50	66	8.972	55	28.00	135	50.193	$\overline{66}$	22.59	366
Feb. 9.5	30.688	$\overline{29}$	70.93	183	60.301	$\overline{10}$	37.84	48	9.027	$\overline{12}$	29.35	141	50.127	146	26.25	342
19.4	30.659	74	72.76	154	60.291	55	37.36	31	9.015	73	30.76	141	49.981	217	29.67	310
29.4	30.585	110	74.30	125	60.236	93	37.05	15	8.942	127	32.17	132	49.764	278	32.77	271
März 10.4	30.475	138	75.55	94	60.143	122	36.90	3	8.815	168	33.49	118	49.486	327	35.48	228
20.3	30.337	157	76.49	63	60.021	143	36.87	$\overline{9}$	8.647	200	34.67	97	49.159	362	37.76	180
30.3	30.180	167	77.12	33	59.878	153	36.96	17	8.447	216	35.64	73	48.797	385	39.56	131
Apr. 9.3	30.013	168	77.45	3	59.725	153	37.13	23	8.231	220	36.37	45	48.412	395	40.87	79
19.3	29.845	160	77.48	$\overline{26}$	59.572	146	37.36	29	8.011	212	36.82	16	48.017	392	41.66	26
29.2	29.685	146	77.22	53	59.426	130	37.65	33	7.799	194	36.98	$\overline{13}$	47.625	377	41.92	$\overline{26}$
Mai 9.2	29.539	124	76.69	80	59.296	108	37.98	37	7.605	165	36.85	40	47.248	353	41.66	77
19.2	29.415	99	75.89	104	59.188	83	38.35	40	7.440	131	36.45	68	46.895	320	40.89	125
29.2	29.316	70	74.85	124	59.105	53	38.75	43	7.309	92	35.77	91	46.575	277	39.64	171
Juni 8.1	29.246	40	73.61	143	59.052	21	39.18	44	7.217	49	34.86	111	46.298	228	37.93	211
18.1	29.206	7	72.18	158	59.031	$\overline{10}$	39.62	44	7.168	4	33.75	130	46.070	174	35.82	245
28.1	29.199	$\overline{25}$	70.60	167	59.041	43	40.06	43	7.164	$\overline{41}$	32.45	144	45.896	114	33.37	273
Juli 8.0	29.224	57	68.93	172	59.084	74	40.49	39	7.205	85	31.01	156	45.782	50	30.64	293
18.0	29.281	90	67.21	170	59.158	104	40.88	34	7.290	128	29.45	165	45.732	$\overline{15}$	27.71	303
28.0	29.371	120	65.51	162	59.262	134	41.22	26	7.418	168	27.80	171	45.747	82	24.68	303
Aug. 7.0	29.491	150	63.89	149	59.396	161	41.48	15	7.586	207	26.09	175	45.829	150	21.65	294
16.9	29.641	179	62.40	127	59.557	188	41.63	2	7.793	244	24.34	176	45.979	216	18.71	275
26.9	29.820	206	61.13	101	59.745	213	41.65	$\overline{16}$	8.037	278	22.58	174	46.195	279	15.96	243
Sept. 5.9	30.026	231	60.12	67	59.958	236	41.49	35	8.315	310	20.84	172	46.474	339	13.53	204
15.9	30.257	256	59.45	30	60.194	258	41.14	55	8.625	339	19.12	165	46.813	391	11.49	154
25.8	30.513	276	59.15	$\overline{10}$	60.452	278	40.59	76	8.964	365	17.47	158	47.204	435	9.95	98
Okt. 5.8	30.789	294	59.25	54	60.730	296	39.83	98	9.329	387	15.89	145	47.639	470	8.97	35
15.8	31.083	307	59.79	97	61.026	309	38.85	117	9.716	406	14.44	130	48.109	491	8.62	$\overline{29}$
25.7	31.390	314	60.76	138	61.335	318	37.68	135	10.122	417	13.14	111	48.600	501	8.91	96
Nov. 4.7	31.704	316	62.14	176	61.653	321	36.33	147	10.539	421	12.03	88	49.101	493	9.87	160
14.7	32.020	308	63.90	208	61.974	317	34.86	155	10.960	416	11.15	63	49.594	471	11.47	220
24.7	32.328	293	65.98	234	62.291	304	33.31	158	11.376	400	10.52	33	50.065	434	13.67	273
Dez. 4.6	32.621	269	68.32	251	62.595	283	31.73	155	11.776	373	10.19	3	50.499	381	16.40	318
14.6	32.890	237	70.83	260	62.878	253	30.18	146	12.149	335	10.16	$\overline{28}$	50.880	317	19.58	352
24.6	33.127	196	73.43	262	63.131	215	28.72	135	12.484	286	10.44	59	51.197	241	23.10	374
34.6	33.323		76.05		63.346		27.37		12.770		11.03		51.438		26.84	
Mittl. Ort	28.332		64.11		57.679		42.76		5.423		30.62		47.515		19.57	
sec δ, tg δ	1.038		−0.278		1.014		+0.166		1.378		+0.948		1.955		−1.680	

Mittlere Zeit Greenw.	316) Br. 1197				318) θ Chamaeleonis				317) o Ursae majoris				320) Gr. 1450			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$8^h\ 21^m$		$-3°\ 37'$		$8^h\ 23^m$		$-77°\ 12'$		$8^h\ 23^m$		$+60°\ 59'$		$8^h\ 27^m$		$+38°\ 17'$	
	s		"		s		"		s		"		s		"	
Jan. 0.6	29.853	188	53.38	201	14.93	28	39.94	378	22.05	35	52.94	165	30.364	251	73.49	40
10.5	30.041	142	55.39	186	15.21	9	43.72	389	22.40	26	54.59	193	30.615	194	73.89	66
20.5	30.183	92	57.25	169	15.30	10	47.61	389	22.66	16	56.52	212	30.809	131	74.55	89
30.5	30.275	40	58.94	147	15.20	29	51.50	377	22.82	6	58.64	223	30.940	67	75.44	105
Feb. 9.5	30.315	7	60.41	123	14.91	45	55.27	357	22.88	3	60.87	223	31.007	4	76.49	116
19.4	30.308	52	61.64	100	14.46	60	58.84	329	22.85	13	63.10	214	31.011	54	77.65	120
29.4	30.256	90	62.64	77	13.86	74	62.13	295	22.72	20	65.24	195	30.957	105	78.85	117
März 10.4	30.166	119	63.41	54	13.12	84	65.08	253	22.52	27	67.19	168	30.852	146	80.02	108
20.3	30.047	139	63.95	31	12.28	93	67.61	208	22.25	31	68.87	133	30.706	175	81.10	93
30.3	29.908	152	64.26	11	11.35	98	69.69	160	21.94	35	70.20	94	30.531	192	82.03	74
Apr. 9.3	29.756	153	64.37	8	10.37	101	71.29	108	21.59	36	71.14	52	30.339	198	82.77	51
19.3	29.603	147	64.29	26	9.36	102	72.37	54	21.23	35	71.66	7	30.141	193	83.28	28
29.2	29.456	134	64.03	43	8.34	100	72.91	1	20.88	33	71.73	36	29.948	177	83.56	4
Mai 9.2	29.322	114	63.60	59	7.34	95	72.92	52	20.55	29	71.37	79	29.771	153	83.60	21
19.2	29.208	91	63.01	73	6.39	89	72.40	102	20.26	24	70.58	118	29.618	123	83.39	45
29.2	29.117	64	62.28	86	5.50	81	71.38	152	20.02	19	69.40	152	29.495	88	82.94	65
Juni 8.1	29.053	35	61.42	96	4.69	70	69.86	196	19.83	13	67.88	184	29.407	50	82.29	85
18.1	29.018	4	60.46	104	3.99	58	67.90	234	19.70	6	66.04	209	29.357	10	81.44	101
28.1	29.014	26	59.42	108	3.41	44	65.56	266	19.64	1	63.95	228	29.347	31	80.43	117
Juli 8.0	29.040	57	58.34	109	2.97	28	62.90	290	19.65	8	61.67	245	29.378	70	79.26	128
18.0	29.097	87	57.25	106	2.69	13	60.00	305	19.73	14	59.22	253	29.448	109	77.98	139
28.0	29.184	115	56.19	98	2.56	4	56.95	311	19.87	21	56.69	259	29.557	147	76.59	146
Aug. 7.0	29.299	144	55.21	85	2.60	21	53.84	305	20.08	27	54.10	258	29.704	182	75.13	153
16.9	29.443	171	54.36	68	2.81	37	50.79	290	20.35	32	51.52	254	29.886	216	73.60	158
26.9	29.614	197	53.68	46	3.18	54	47.89	264	20.67	38	48.98	244	30.102	248	72.02	161
Sept. 5.9	29.811	223	53.22	19	3.72	68	45.25	226	21.05	44	46.54	230	30.350	279	70.41	161
15.9	30.034	245	53.03	11	4.40	80	42.99	180	21.49	47	44.24	213	30.629	308	68.80	161
25.8	30.279	268	53.14	42	5.20	91	41.19	125	21.96	52	42.11	190	30.937	333	67.19	157
Okt. 5.8	30.547	286	53.56	75	6.11	99	39.94	64	22.48	55	40.21	164	31.270	357	65.62	151
15.8	30.833	301	54.31	108	7.10	103	39.30	1	23.03	57	38.57	133	31.627	375	64.11	141
25.7	31.134	311	55.39	138	8.13	104	39.31	67	23.60	59	37.24	98	32.002	389	62.70	128
Nov. 4.7	31.445	314	56.77	165	9.17	101	39.98	134	24.19	59	36.26	60	32.391	395	61.42	110
14.7	31.759	312	58.42	187	10.18	95	41.32	195	24.78	59	35.66	20	32.786	393	60.32	88
24.7	32.071	299	60.29	201	11.13	85	43.27	252	25.37	56	35.46	24	33.179	380	59.44	64
Dez. 4.6	32.370	280	62.30	211	11.98	72	45.79	301	25.93	52	35.70	65	33.559	358	58.80	36
14.6	32.650	249	64.41	212	12.70	56	48.80	339	26.45	46	36.35	107	33.917	324	58.44	7
24.6	32.899	212	66.53	207	13.26	40	52.19	367	26.91	40	37.42	144	34.241	279	58.37	23
34.6	33.111		68.60		13.66		55.86		27.31		38.86		34.520		58.60	
Mittl. Ort	27.848		53.95		10.83		50.00		17.83		60.53		27.623		79.42	
sec δ, tg δ	1.002		−0.063		4.518		−4.406		2.063		+1.804		1.274		+0.789	

Mittlere Zeit Greenw.	321) η Cancri				326) δ Cancri				327) α Pyxidis				328) ι Cancri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	8ʰ 27ᵐ		+20° 43′		8ʰ 39ᵐ		+18° 27′		8ʰ 40ᵐ		−32° 52′		8ʰ 41ᵐ		+29° 3′	
Jan. 0.6	53.520	219	34.77	63	57.047	226	45.67	83	14.853	199	53.40	329	39.486	245	58.90	21
10.6	53.739	168	34.14	41	57.273	178	44.84	60	15.052	147	56.69	328	39.731	194	58.69	5
20.5	53.907	116	33.73	20	57.451	127	44.24	38	15.199	90	59.97	318	39.925	137	58.74	28
30.5	54.023	61	33.53	1	57.578	72	43.86	17	15.289	33	63.15	300	40.062	80	59.02	49
Feb. 9.5	54.084	7	33.52	17	57.650	19	43.69	3	15.322	21	66.15	275	40.142	22	59.51	66
19.4	54.091	41	33.69	30	57.669	30	43.72	17	15.301	71	68.90	246	40.164	32	60.17	76
29.4	54.050	84	33.99	39	57.639	72	43.89	29	15.230	115	71.36	212	40.132	78	60.93	81
März 10.4	53.966	117	34.38	44	57.567	108	44.18	38	15.115	149	73.48	175	40.054	116	61.74	82
20.3	53.849	141	34.82	45	57.459	132	44.56	41	14.966	175	75.23	135	39.938	145	62.56	76
30.3	53.708	156	35.27	43	57.327	148	44.97	42	14.791	191	76.58	95	39.793	163	63.32	67
Apr. 9.3	53.552	159	35.70	38	57.179	153	45.39	40	14.600	197	77.53	54	39.630	169	63.99	54
19.3	53.393	154	36.08	33	57.026	151	45.79	36	14.403	197	78.07	13	39.461	167	64.53	40
29.2	53.239	140	36.41	25	56.875	139	46.15	30	14.206	187	78.20	28	39.294	155	64.93	24
Mai 9.2	53.099	120	36.66	17	56.736	121	46.45	25	14.019	171	77.92	68	39.139	135	65.17	7
19.2	52.979	94	36.83	10	56.615	97	46.70	18	13.848	150	77.24	104	39.004	111	65.24	9
29.2	52.885	65	36.93	1	56.518	71	46.88	12	13.698	124	76.20	139	38.893	82	65.15	24
Juni 8.1	52.820	34	36.94	6	56.447	42	47.00	4	13.574	94	74.81	168	38.811	49	64.91	40
18.1	52.786	1	36.88	13	56.405	10	47.04	2	13.480	63	73.13	195	38.762	16	64.51	53
28.1	52.785	33	36.75	20	56.395	21	47.02	9	13.417	28	71.18	214	38.746	18	63.98	65
Juli 8.1	52.818	64	36.55	28	56.416	52	46.93	17	13.389	6	69.04	228	38.764	53	63.33	77
18.0	52.882	97	36.27	37	56.468	83	46.76	26	13.395	43	66.76	235	38.817	87	62.56	87
28.0	52.979	127	35.90	44	56.551	113	46.50	35	13.438	79	64.41	233	38.904	120	61.69	98
Aug. 7.0	53.106	157	35.46	55	56.664	142	46.15	46	13.517	116	62.08	222	39.024	151	60.71	107
16.9	53.263	184	34.91	66	56.806	170	45.69	58	13.633	153	59.86	204	39.175	183	59.64	117
26.9	53.447	212	34.25	77	56.976	198	45.11	71	13.786	189	57.82	177	39.358	212	58.47	125
Sept. 5.9	53.659	238	33.48	89	57.174	225	44.40	86	13.975	223	56.05	142	39.570	241	57.22	134
15.9	53.897	262	32.59	102	57.399	250	43.54	101	14.198	256	54.63	99	39.811	268	55.88	140
25.8	54.159	285	31.57	114	57.649	274	42.53	114	14.454	286	53.64	52	40.079	294	54.48	146
Okt. 5.8	54.444	306	30.43	125	57.923	297	41.39	128	14.740	311	53.12	2	40.373	317	53.02	149
15.8	54.750	322	29.18	132	58.220	314	40.11	138	15.051	331	53.14	56	40.690	338	51.53	149
25.8	55.072	334	27.86	138	58.534	329	38.73	146	15.382	345	53.70	110	41.028	352	50.04	146
Nov. 4.7	55.406	340	26.48	139	58.863	337	37.27	150	15.727	349	54.80	163	41.380	362	48.58	137
14.7	55.746	340	25.09	135	59.200	338	35.77	148	16.076	346	56.43	212	41.742	362	47.21	125
24.7	56.086	328	23.74	127	59.538	329	34.29	142	16.422	330	58.55	252	42.104	355	45.96	109
Dez. 4.6	56.414	310	22.47	113	59.867	312	32.87	131	16.752	306	61.07	286	42.459	336	44.87	87
14.6	56.724	280	21.34	97	60.179	286	31.56	115	17.058	273	63.93	311	42.795	307	44.00	64
24.6	57.004	242	20.37	77	60.465	249	30.41	96	17.331	228	67.04	325	43.102	270	43.36	38
34.6	57.246		19.60		60.714		29.45		17.559		70.29		43.372		42.98	
Mittl. Ort	51.232		38.36		54.836		49.60		12.976		58.77		37.065		64.65	
sec δ, tg δ	1.069		+0.378		1.054		+0.334		1.191		−0.647		1.144		+0.556	

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	330) δ Argus				334) ζ Hydrae				336) c Carinae				335) ι Ursae majoris			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$8^h\,42^m$		−54° 23′		$8^h\,50^m$		+6° 15′		$8^h\,53^m$		−60° 19′		$8^h\,53^m$		+48° 21′	
Jan. 0.6	25.158	222	52.94	375	59.305	222	55.11	156	10.91	26	13.80	376	30.897	314	70.82	78
10.6	25.380	148	56.69	383	59.527	177	53.55	137	11.17	17	17.56	389	31.211	250	71.60	111
20.5	25.528	72	60.52	380	59.704	127	52.18	116	11.34	8	21.45	390	31.461	179	72.71	138
30.5	25.600	6	64.32	368	59.831	77	51.02	94	11.42	0	25.35	382	31.640	105	74.09	158
Feb. 9.5	25.594	78	68.00	346	59.908	26	50.08	72	11.42	9	29.17	363	31.745	32	75.67	171
19.4	25.516	144	71.46	318	59.934	21	49.36	51	11.33	16	32.80	338	31.777	39	77.38	175
29.4	25.372	202	74.64	282	59.913	62	48.85	32	11.17	23	36.18	303	31.738	102	79.13	170
März 10.4	25.170	249	77.46	241	59.851	95	48.53	14	10.94	29	39.21	266	31.636	155	80.83	156
20.4	24.921	285	79.87	196	59.756	121	48.39	0	10.65	34	41.87	221	31.481	195	82.39	137
30.3	24.636	310	81.83	149	59.635	136	48.39	12	10.31	36	44.08	174	31.286	223	83.76	111
Apr. 9.3	24.326	323	83.32	100	59.499	143	48.51	23	9.95	38	45.82	123	31.063	237	84.87	80
19.3	24.003	325	84.32	48	59.356	142	48.74	31	9.57	40	47.05	72	30.826	238	85.67	48
29.3	23.678	316	84.80	3	59.214	133	49.05	38	9.17	38	47.77	20	30.588	228	86.15	13
Mai 9.2	23.362	300	84.77	52	59.081	118	49.43	44	8.79	37	47.97	32	30.360	207	86.28	21
19.2	23.062	274	84.25	102	58.963	97	49.87	48	8.42	35	47.65	84	30.153	177	86.07	55
29.2	22.788	241	83.23	146	58.866	74	50.35	51	8.07	31	46.81	131	29.976	142	85.52	86
Juni 8.1	22.547	203	81.77	188	58.792	48	50.86	54	7.76	27	45.50	176	29.834	102	84.66	115
18.1	22.344	158	79.89	223	58.744	20	51.40	54	7.49	23	43.74	215	29.732	58	83.51	141
28.1	22.186	110	77.66	254	58.724	8	51.94	53	7.26	16	41.59	249	29.674	13	82.10	162
Juli 8.1	22.076	58	75.12	274	58.732	37	52.47	50	7.10	11	39.10	274	29.661	32	80.48	181
18.0	22.018	3	72.38	289	58.769	66	52.97	43	6.99	4	36.36	292	29.693	78	78.67	196
28.0	22.015	55	69.49	293	58.835	93	53.40	35	6.95	2	33.44	300	29.771	123	76.71	208
Aug. 7.0	22.070	112	66.56	287	58.928	122	53.75	23	6.97	9	30.44	297	29.894	167	74.63	216
17.0	22.182	170	63.69	271	59.050	150	53.98	9	7.06	17	27.47	285	30.061	208	72.47	220
26.9	22.352	228	60.98	244	59.200	177	54.07	11	7.23	24	24.62	262	30.269	250	70.27	222
Sept. 5.9	22.580	281	58.54	208	59.377	204	53.96	31	7.47	30	22.00	228	30.519	288	68.05	220
15.9	22.861	332	56.46	162	59.581	229	53.65	53	7.77	36	19.72	185	30.807	326	65.85	214
25.8	23.193	376	54.84	109	59.810	255	53.12	78	8.13	42	17.87	132	31.133	360	63.71	205
Okt. 5.8	23.569	412	53.75	50	60.065	277	52.34	103	8.55	46	16.55	74	31.493	392	61.66	191
15.8	23.981	438	53.25	13	60.342	298	51.31	125	9.01	50	15.81	10	31.885	418	59.75	173
25.8	24.419	454	53.38	79	60.640	313	50.06	146	9.51	52	15.71	56	32.303	439	58.02	151
Nov. 4.7	24.873	456	54.17	142	60.953	322	48.60	163	10.03	52	16.27	121	32.742	452	56.51	123
14.7	25.329	444	55.59	202	61.275	324	46.97	175	10.55	51	17.48	184	33.194	454	55.28	92
24.7	25.773	419	57.61	256	61.599	318	45.22	182	11.06	48	19.32	242	33.648	446	54.36	57
Dez. 4.7	26.192	380	60.17	303	61.917	303	43.40	181	11.54	44	21.74	292	34.094	425	53.79	20
14.6	26.572	327	63.20	339	62.220	277	41.59	176	11.98	38	24.66	332	34.519	390	53.59	18
24.6	26.899	265	66.59	364	62.497	244	39.83	165	12.36	31	27.98	363	34.909	344	53.77	57
34.6	27.164		70.23		62.741		38.18		12.67		31.61		35.253		54.34	
Mittl. Ort	23.058		61.59		57.297		57.34		8.71		23.51		27.828		80.15	
sec δ, tg δ	1.718		−1.397		1.006		+0.110		2.020		−1.755		1.505		+1.125	

Mittlere Zeit Greenw.	337) α Cancri				339) 10 Ursae majoris				341) κ Ursae majoris				343) α Volantis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$8^h\ 53^m$		+12° 10′		$8^h\ 55^m$		+42° 6′		$8^h\ 57^m$		+47° 28′		$9^h\ 1^m$		−66° 3′	
Jan. 0.6	55.779	230	57.41	124	14.372	291	49.30	44	56.867	315	72.74	70	9.80	30	27.71	375
10.6	56.009	185	56.17	103	14.663	234	49.74	75	57.182	254	73.44	104	10.10	21	31.46	390
20.5	56.194	136	55.14	81	14.897	169	50.49	102	57.436	185	74.48	132	10.31	10	35.36	396
30.5	56.330	83	54.33	58	15.066	102	51.51	124	57.621	111	75.80	154	10.41	$\overline{1}$	39.32	391
Feb. 9.5	56.413	31	53.75	36	15.168	36	52.75	138	57.732	39	77.34	167	10.40	11	43.23	376
19.5	56.444	$\overline{16}$	53.39	18	15.204	$\overline{28}$	54.13	146	57.771	$\overline{31}$	79.01	172	10.29	20	46.99	353
29.4	56.428	59	53.21	0	15.176	85	55.59	144	57.740	93	80.73	169	10.09	28	50.52	322
März 10.4	56.369	94	53.21	12	15.091	132	57.03	137	57.647	145	82.42	158	9.81	35	53.74	284
20.4	56.275	120	53.33	23	14.959	169	58.40	122	57.502	187	84.00	138	9.46	41	56.58	242
30.4	56.155	136	53.56	29	14.790	193	59.62	102	57.315	214	85.38	114	9.05	44	59.00	196
Apr. 9.3	56.019	145	53.85	34	14.597	205	60.64	77	57.101	229	86.52	85	8.61	48	60.96	146
19.3	55.874	143	54.19	37	14.392	206	61.41	50	56.872	231	87.37	52	8.13	49	62.42	93
29.3	55.731	135	54.56	38	14.186	197	61.91	21	56.641	222	87.89	19	7.64	49	63.35	41
Mai 9.3	55.596	119	54.94	38	13.989	177	62.12	$\overline{8}$	56.419	203	88.08	$\overline{15}$	7.15	48	63.76	$\overline{13}$
19.2	55.477	99	55.32	35	13.812	152	62.04	37	56.216	175	87.93	48	6.67	45	63.63	66
29.2	55.378	76	55.67	34	13.660	120	61.67	64	56.041	140	87.45	79	6.22	41	62.97	116
Juni 8.2	55.302	49	56.01	32	13.540	84	61.03	89	55.901	102	86.66	109	5.81	36	61.81	162
18.1	55.253	21	56.33	27	13.456	45	60.14	111	55.799	60	85.57	134	5.45	31	60.19	205
28.1	55.232	$\overline{8}$	56.60	23	13.411	6	59.03	131	55.739	16	84.23	156	5.14	24	58.14	242
Juli 8.1	55.240	37	56.83	17	13.405	$\overline{34}$	57.72	149	55.723	$\overline{28}$	82.67	175	4.90	18	55.72	270
18.0	55.277	67	57.00	9	13.439	75	56.23	163	55.751	72	80.92	192	4.72	9	53.02	291
28.0	55.344	95	57.09	$\overline{1}$	13.514	114	54.60	176	55.823	117	79.00	203	4.63	1	50.11	303
Aug. 7.0	55.439	123	57.08	12	13.628	152	52.84	184	55.940	159	76.97	213	4.62	$\overline{7}$	47.08	303
17.0	55.562	151	56.96	26	13.780	189	51.00	191	56.099	200	74.84	218	4.69	17	44.05	295
26.9	55.713	179	56.70	43	13.969	226	49.09	196	56.299	241	72.66	220	4.86	25	41.10	274
Sept. 5.9	55.892	206	56.27	61	14.195	261	47.13	197	56.540	280	70.46	220	5.11	33	38.36	244
15.9	56.098	232	55.66	80	14.456	295	45.16	197	56.820	317	68.26	215	5.44	42	35.92	201
25.9	56.330	258	54.86	99	14.751	326	43.19	192	57.137	351	66.11	207	5.86	49	33.91	151
Okt. 5.8	56.588	281	53.87	119	15.077	355	41.27	184	57.488	384	64.04	194	6.35	54	32.40	93
15.8	56.869	302	52.68	136	15.432	380	39.43	171	57.872	411	62.10	177	6.89	59	31.47	30
25.8	57.171	318	51.32	151	15.812	400	37.72	156	58.283	431	60.33	156	7.48	61	31.17	$\overline{36}$
Nov. 4.7	57.489	328	49.81	161	16.212	412	36.16	134	58.714	446	58.77	130	8.09	61	31.53	103
14.7	57.817	331	48.20	167	16.624	415	34.82	109	59.160	450	57.47	98	8.70	61	32.56	167
24.7	58.148	325	46.53	167	17.039	409	33.73	79	59.610	442	56.49	65	9.31	57	34.23	227
Dez. 4.7	58.473	310	44.86	162	17.448	390	32.94	46	60.052	423	55.84	28	9.88	52	36.50	281
14.6	58.783	286	43.24	151	17.838	360	32.48	13	60.475	390	55.56	$\overline{11}$	10.40	45	39.31	324
24.6	59.069	253	41.73	135	18.198	318	32.35	$\overline{23}$	60.865	345	55.67	48	10.85	37	42.55	359
34.6	59.322		40.38		18.516		32.58		61.210		56.15		11.22		46.14	
Mittl. Ort	53.709		60.94		11.598		57.99		53.865		82.36		7.43		38.33	
sec δ, tg δ	1.023		+0.216		1.348		+0.904		1.480		+1.091		2.464		−2.252	

Mittlere Zeit Greenw.	344) σ^2 Ursae maj. AR.		Dekl.		345) λ Argus AR.		Dekl.		347) ϑ Hydrae AR.		Dekl.		348) β Argus AR.		Dekl.	
	$9^h\ 3^m$		+67° 28′		$9^h\ 4^m$		−43° 5′		$9^h\ 9^m$		+2° 39′		$9^h\ 12^m$		−69° 22′	
Jan. 0.6	6.11	49	24.04	162	56.098	237	27.17	352	61.622	236	67.17	181	19.48	36	4.48	367
10.6	6.60	40	25.66	199	56.335	179	30.69	358	61.858	192	65.36	164	19.84	24	8.15	388
20.6	7.00	28	27.65	228	56.514	116	34.27	357	62.050	144	63.72	144	20.08	13	12.03	396
30.5	7.28	15	29.93	247	56.630	54	37.84	344	62.194	94	62.28	121	20.21	2	15.99	395
Feb. 9.5	7.43	4	32.40	255	56.684	—8	41.28	325	62.288	43	61.07	98	20.23	—11	19.94	384
19.5	7.47	—9	34.95	252	56.676	65	44.53	299	62.331	—3	60.09	75	20.12	21	23.78	363
29.4	7.38	19	37.47	239	56.611	115	47.52	265	62.328	46	59.34	53	19.91	30	27.41	336
März 10.4	7.19	29	39.86	215	56.496	157	50.17	229	62.282	80	58.81	33	19.61	39	30.77	301
20.4	6.90	36	42.01	182	56.339	190	52.46	188	62.202	108	58.48	15	19.22	45	33.78	259
30.4	6.54	42	43.83	143	56.149	213	54.34	145	62.094	125	58.33	0	18.77	51	36.37	216
Apr. 9.3	6.12	45	45.26	98	55.936	226	55.79	100	61.969	136	58.33	15	18.26	55	38.53	166
19.3	5.67	46	46.24	50	55.710	231	56.79	54	61.833	137	58.48	26	17.71	56	40.19	114
29.3	5.21	45	46.74	0	55.479	227	57.33	9	61.696	131	58.74	37	17.15	57	41.33	62
Mai 9.3	4.76	43	46.74	48	55.252	216	57.42	—38	61.565	120	59.11	45	16.58	57	41.95	7
19.2	4.33	38	46.26	95	55.036	198	57.04	81	61.445	103	59.56	53	16.01	53	42.02	—46
29.2	3.95	33	45.31	139	54.838	175	56.23	123	61.342	82	60.09	58	15.48	50	41.56	98
Juni 8.2	3.62	26	43.92	179	54.663	146	55.00	160	61.260	59	60.67	63	14.98	46	40.58	146
18.1	3.36	18	42.13	213	54.517	115	53.40	193	61.201	34	61.30	66	14.52	39	39.12	191
28.1	3.18	11	40.00	242	54.402	80	51.47	222	61.167	8	61.96	66	14.13	32	37.21	230
Juli 8.1	3.07	3	37.58	265	54.322	41	49.25	242	61.159	—20	62.62	64	13.81	24	34.91	263
18.1	3.04	—5	34.93	284	54.281	2	46.83	256	61.179	47	63.26	59	13.57	15	32.28	286
28.0	3.09	14	32.09	295	54.279	—41	44.27	261	61.226	74	63.85	50	13.42	5	29.42	301
Aug. 7.0	3.23	22	29.14	301	54.320	85	41.66	257	61.300	102	64.35	39	13.37	—4	26.41	306
17.0	3.45	30	26.13	302	54.405	130	39.09	243	61.402	130	64.74	24	13.41	15	23.35	301
26.9	3.75	37	23.11	296	54.535	173	36.66	220	61.532	158	64.98	5	13.56	25	20.34	282
Sept. 5.9	4.12	44	20.15	285	54.708	218	34.46	188	61.690	186	65.03	—18	13.81	35	17.52	256
15.9	4.56	51	17.30	269	54.926	260	32.58	147	61.876	214	64.85	42	14.16	45	14.96	217
25.9	5.07	57	14.61	247	55.186	298	31.11	99	62.090	242	64.43	69	14.61	53	12.79	168
Okt. 5.8	5.64	62	12.14	219	55.484	333	30.12	43	62.332	266	63.74	96	15.14	60	11.11	113
15.8	6.26	67	9.95	187	55.817	360	29.69	—14	62.598	290	62.78	123	15.74	66	9.98	51
25.8	6.93	70	8.08	148	56.177	380	29.83	74	62.888	307	61.55	148	16.40	69	9.47	—15
Nov. 4.8	7.63	72	6.60	106	56.557	390	30.57	134	63.195	321	60.07	168	17.09	70	9.62	82
14.7	8.35	73	5.54	59	56.947	388	31.91	189	63.516	325	58.39	185	17.79	69	10.44	148
24.7	9.08	71	4.95	11	57.335	376	33.80	240	63.841	322	56.54	195	18.48	66	11.92	209
Dez. 4.7	9.79	68	4.84	—40	57.711	352	36.20	283	64.163	310	54.59	200	19.14	60	14.01	266
14.6	10.47	62	5.24	90	58.063	315	39.03	317	64.473	287	52.59	197	19.74	52	16.67	311
24.6	11.09	54	6.14	135	58.378	269	42.20	341	64.760	256	50.62	188	20.26	42	19.78	350
34.6	11.63		7.49		58.647		45.61		65.016		48.74		20.68		23.28	
Mittl. Ort	1.24		36.01		54.274		34.60		59.719		69.38		17.01		15.79	
sec δ, tg δ	2.611		+2.411		1.369		−0.936		1.001		+0.047		2.838		−2.656	

Mittlere Zeit Greenw.	350) 83 Cancri AR.	Diff.	350) 83 Cancri Dekl.	Diff.	352) 40 Lyncis AR.	Diff.	352) 40 Lyncis Dekl.	Diff.	353) ϰ Argus AR.	Diff.	353) ϰ Argus Dekl.	Diff.	354) α Hydrae AR.	Diff.	354) α Hydrae Dekl.	Diff.
	9h 14m		+18° 3′		9h 15m		+34° 44′		9h 19m		−54° 38′		9h 23m		−8° 17′	
Jan. 0.6	19.827	255	37.81	101	58.968	288	45.24	10	32.547	285	55.91	362	29.373	241	38.22	235
10.6	20.082	210	36.80	76	59.256	239	45.14	22	32.832	214	59.53	378	29.614	198	40.57	224
20.6	20.292	159	36.04	50	59.495	181	45.36	51	33.046	140	63.31	383	29.812	151	42.81	208
30.5	20.451	107	35.54	26	59.676	122	45.87	77	33.186	63	67.14	378	29.963	100	44.89	188
Feb. 9.5	20.558	54	35.28	3	59.798	60	46.64	98	33.249	11	70.92	364	30.063	51	46.77	166
19.5	20.612	4	35.25	16	59.858	2	47.62	111	33.238	80	74.56	341	30.114	4	48.43	140
29.4	20.616	42	35.41	31	59.860	51	48.73	119	33.158	143	77.97	311	30.118	38	49.83	114
März 10.4	20.574	80	35.72	42	59.809	96	49.92	119	33.015	196	81.08	276	30.080	74	50.97	88
20.4	20.494	110	36.14	50	59.713	132	51.11	113	32.819	240	83.84	236	30.006	102	51.85	63
30.4	20.384	131	36.64	52	59.581	157	52.24	101	32.579	272	86.20	192	29.904	122	52.48	40
Apr. 9.3	20.253	141	37.16	52	59.424	171	53.25	85	32.307	293	88.12	143	29.782	134	52.88	16
19.3	20.112	145	37.68	48	59.253	176	54.10	65	32.014	305	89.55	95	29.648	137	53.04	6
29.3	19.967	138	38.16	44	59.077	170	54.75	43	31.709	307	90.50	45	29.511	134	52.98	26
Mai 9.3	19.829	127	38.60	36	58.907	158	55.18	20	31.402	299	90.95	6	29.377	124	52.72	46
19.2	19.702	110	38.96	28	58.749	138	55.38	4	31.103	283	90.89	56	29.253	111	52.26	62
29.2	19.592	88	39.24	21	58.611	112	55.34	26	30.820	259	90.33	103	29.142	93	51.64	78
Juni 8.2	19.504	63	39.45	12	58.499	84	55.08	49	30.561	231	89.30	148	29.049	72	50.86	91
18.1	19.441	36	39.57	2	58.415	53	54.59	70	30.330	194	87.82	188	28.977	49	49.95	103
28.1	19.405	9	39.59	7	58.362	19	53.89	88	30.136	152	85.94	223	28.928	25	48.92	110
Juli 8.1	19.396	20	39.52	17	58.343	15	53.01	106	29.984	106	83.71	251	28.903	1	47.82	114
18.1	19.416	48	39.35	28	58.358	48	51.95	123	29.878	55	81.20	272	28.904	28	46.68	115
28.0	19.464	78	39.07	40	58.406	83	50.72	136	29.823	1	78.48	283	28.932	55	45.53	109
Aug. 7.0	19.542	106	38.67	52	58.489	117	49.36	150	29.822	56	75.65	285	28.987	83	44.44	99
17.0	19.648	135	38.15	66	58.606	150	47.86	161	29.878	115	72.80	278	29.070	113	43.45	85
27.0	19.783	163	37.49	82	58.756	184	46.25	170	29.993	175	70.02	258	29.183	142	42.60	64
Sept. 5.9	19.946	194	36.67	97	58.940	218	44.55	179	30.168	234	67.44	230	29.325	172	41.96	39
15.9	20.140	223	35.70	113	59.158	250	42.76	184	30.402	290	65.14	190	29.497	202	41.57	9
25.9	20.363	250	34.57	129	59.408	281	40.92	187	30.692	343	63.24	143	29.699	231	41.48	24
Okt. 5.9	20.613	276	33.28	144	59.689	312	39.05	188	31.035	390	61.81	88	29.930	259	41.72	58
15.8	20.889	301	31.84	155	60.001	338	37.17	183	31.425	426	60.93	27	30.189	284	42.30	95
25.8	21.190	321	30.29	165	60.339	360	35.34	176	31.851	453	60.66	36	30.473	304	43.25	130
Nov. 4.8	21.511	334	28.64	169	60.699	376	33.58	162	32.304	467	61.02	100	30.777	319	44.55	162
14.7	21.845	341	26.95	169	61.075	384	31.96	144	32.771	468	62.02	162	31.096	325	46.17	190
24.7	22.186	340	25.26	163	61.459	383	30.52	121	33.239	452	63.64	220	31.421	324	48.07	212
Dez. 4.7	22.526	328	23.63	151	61.842	370	29.31	94	33.691	423	65.84	272	31.745	313	50.19	228
14.6	22.854	306	22.12	136	62.212	346	28.37	63	34.114	380	68.56	314	32.058	291	52.47	236
24.6	23.160	275	20.76	115	62.558	311	27.74	31	34.494	323	71.70	346	32.349	262	54.83	237
34.6	23.435		19.61		62.869		27.43		34.817		75.16		32.611		57.20	
Mittl. Ort	17.747		43.57		56.538		54.37		30.668		65.52		27.609		38.15	
sec δ, tg δ	1.052		+0.326		1.217		+0.694		1.728		−1.410		1.011		−0.146	

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	355) *h* Ursae majoris				357) *d* Ursae majoris				358) ϑ Ursae majoris				359) ψ Argus			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
	9ʰ 24ᵐ		+63° 25′		9ʰ 27ᵐ		+70° 11′		9ʰ 27ᵐ		+52° 3′		9ʰ 27ᵐ		−40° 5′	
Jan. 0.6	59.39	48	34.29	125	9.89	59	47.44	151	17.951	369	26.43	68	25.097	260	47.28	339
10.6	59.87	39	35.54	165	10.48	49	48.95	192	18.320	306	27.11	108	25.357	206	50.67	347
20.6	60.26	29	37.19	200	10.97	37	50.87	228	18.626	235	28.19	142	25.563	148	54.14	348
30.5	60.55	19	39.19	226	11.34	22	53.15	251	18.861	158	29.61	169	25.711	88	57.62	339
Feb. 9.5	60.74	8	41.45	240	11.56	10	55.66	265	19.019	79	31.30	189	25.799	29	61.01	321
19.5	60.82	— 2	43.85	245	11.66	— 4	58.31	268	19.098	1	33.19	198	25.828	— 28	64.22	298
29.4	60.80	11	46.30	239	11.62	17	60.99	259	19.099	— 69	35.17	198	25.800	77	67.20	268
März 10.4	60.69	21	48.69	222	11.45	28	63.58	240	19.030	132	37.15	189	25.723	120	69.88	234
20.4	60.48	27	50.91	196	11.17	38	65.98	208	18.898	184	39.04	171	25.603	155	72.22	196
30.4	60.21	32	52.87	163	10.79	44	68.06	171	18.714	221	40.75	146	25.448	181	74.18	156
Apr. 9.3	59.89	36	54.50	123	10.35	50	69.77	127	18.493	245	42.21	116	25.267	197	75.74	113
19.3	59.53	38	55.73	78	9.85	52	71.04	78	18.248	257	43.37	81	25.070	205	76.87	70
29.3	59.15	38	56.51	33	9.33	52	71.82	28	17.991	255	44.18	43	24.865	205	77.57	26
Mai 9.3	58.77	36	56.84	— 15	8.81	51	72.10	— 24	17.736	243	44.61	5	24.660	199	77.83	— 17
19.2	58.41	33	56.69	61	8.30	48	71.86	74	17.493	220	44.66	— 35	24.461	186	77.66	60
29.2	58.08	29	56.08	105	7.82	42	71.12	121	17.273	190	44.31	71	24.275	167	77.06	101
Juni 8.2	57.79	24	55.03	145	7.40	35	69.91	165	17.083	154	43.60	106	24.108	144	76.05	137
18.1	57.55	18	53.58	183	7.05	28	68.26	206	16.929	113	42.54	138	23.964	119	74.68	172
28.1	57.37	12	51.75	214	6.77	20	66.20	238	16.816	70	41.16	168	23.845	88	72.96	199
Juli 8.1	57.25	6	49.61	242	6.57	11	63.82	267	16.746	24	39.48	192	23.757	55	70.97	222
18.1	57.19	— 1	47.19	264	6.46	2	61.15	290	16.722	— 23	37.56	213	23.702	19	68.75	237
28.0	57.20	8	44.55	280	6.44	— 7	58.25	306	16.745	70	35.43	230	23.683	— 19	66.38	245
Aug. 7.0	57.28	15	41.75	291	6.51	16	55.19	317	16.815	117	33.13	244	23.702	60	63.93	244
17.0	57.43	21	38.84	298	6.67	26	52.02	321	16.932	164	30.69	253	23.762	102	61 49	235
26.9	57.64	27	35.86	297	6.93	34	48.81	319	17.096	210	28.16	258	23.864	144	59.14	214
Sept. 5.9	57.91	35	32.89	293	7.27	42	45.62	312	17.306	256	25.58	259	24.008	188	57.00	186
15.9	58.26	40	29.96	282	7.69	51	42.50	297	17.562	300	22.99	255	24.196	230	55.14	149
25.9	58.66	46	27.14	265	8.20	58	39.53	277	17.862	343	20.44	247	24.426	270	53.65	104
Okt. 5.9	59.12	51	24.49	244	8.78	65	36.76	250	18.205	383	17.97	233	24.696	307	52.61	53
15.8	59.63	55	22.05	215	9.43	70	34.26	219	18.588	418	15.64	215	25.003	339	52.08	— 3
25.8	60.18	60	19.90	182	10.13	76	32.07	180	19.006	448	13.49	190	25.342	362	52.11	60
Nov. 4.8	60.78	62	18.08	143	10.89	79	30.27	136	19.454	470	11.59	161	25.704	378	52.71	118
14.7	61.40	63	16.65	100	11.68	80	28.91	88	19.924	482	9.98	127	26.082	383	53.89	172
24.7	62.03	63	15.65	52	12.48	80	28.03	37	20.406	481	8.71	87	26.465	377	55.61	223
Dez. 4.7	62.66	61	15.13	2	13.28	77	27.66	— 17	20.887	468	7.84	46	26.842	358	57.84	266
14.7	63.27	57	15.11	— 48	14.05	72	27.83	70	21.355	439	7.38	2	27.200	328	60.50	301
24.6	63.84	51	15.59	96	14.77	64	28.53	120	21.794	398	7.36	— 41	27.528	289	63.51	327
34.6	64.35		16.55		15.41		29.73		22.192		7.77		27.817		66.78	
Mittl. Ort	55.33		48.05		4.75		61.90		14.875		39.13		23.403		54.41	
sec δ, tg δ	2.236		+2.000		2.952		+2.778		1.627		+1.283		1.307		−0.842	

Mittlere Zeit Greenw.	360) 10 Leonis minoris				366) ϑ Antliae				367) ε Leonis				369) υ Argus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	9h 29m		+36° 45′		9h 40m		−27° 22′		9h 41m		+24° 9′		9h 44m		−64° 40′	
Jan. 0.6	7.384	306	65.83	9	28.998	259	59.57	303	7.257	285	33.10	83	62.09	39	43.73	351
10.6	7.690	257	65.74	26	29.257	214	62.60	306	7.542	242	32.27	52	62.48	31	47.24	376
20.6	7.947	200	66.00	58	29.471	164	65.66	302	7.784	193	31.75	22	62.79	21	51.00	391
30.5	8.147	139	66.58	86	29.635	111	68.68	290	7.977	139	31.53	6	63.00	11	54.91	395
Feb. 9.5	8.286	77	67.44	108	29.746	58	71.58	270	8.116	85	31.59	31	63.11	1	58.86	389
19.5	8.363	17	68.52	123	29.804	7	74.28	247	8.201	31	31.90	53	63.12	7	62.75	373
29.5	8.380	39	69.75	132	29.811	39	76.75	218	8.232	18	32.43	67	63.05	16	66.48	352
März 10.4	8.341	86	71.07	133	29.772	78	78.93	187	8.214	60	33.10	78	62.89	23	70.00	321
20.4	8.255	125	72.40	127	29.694	109	80.80	155	8.154	95	33.88	83	62.66	30	73.21	284
30.4	8.130	153	73.67	114	29.585	134	82.35	119	8.059	120	34.71	82	62.36	35	76.05	244
Apr. 9.3	7.977	170	74.81	98	29.451	149	83.54	84	7.939	137	35.53	78	62.01	39	78.49	197
19.3	7.807	178	75.79	76	29.302	157	84.38	48	7.802	144	36.31	69	61.62	41	80.46	149
29.3	7.629	176	76.55	53	29.145	158	84.86	13	7.658	144	37.00	58	61.21	43	81.95	97
Mai 9.3	7.453	165	77.08	27	28.987	153	84.99	22	7.514	137	37.58	44	60.78	43	82.92	45
19.2	7.288	147	77.35	1	28.834	143	84.77	56	7.377	123	38.02	30	60.35	42	83.37	9
29.2	7.141	124	77.36	24	28.691	127	84.21	87	7.254	104	38.32	14	59.93	40	83.28	60
Juni 8.2	7.017	97	77.12	50	28.564	110	83.34	116	7.150	83	38.46	1	59.53	37	82.68	111
18.2	6.920	67	76.62	73	28.454	87	82.18	142	7.067	59	38.45	17	59.16	33	81.57	158
28.1	6.853	34	75.89	94	28.367	63	80.76	164	7.008	32	38.28	33	58.83	28	79.99	199
Juli 8.1	6.819	1	74.95	115	28.304	36	79.12	180	6.976	5	37.95	47	58.55	23	78.00	236
18.1	6.818	34	73.80	133	28.268	7	77.32	191	6.971	22	37.48	63	58.32	16	75.64	265
28.0	6.852	68	72.47	149	28.261	23	75.41	194	6.993	52	36.85	78	58.16	9	72.99	284
Aug. 7.0	6.920	102	70.98	163	28.284	56	73.47	192	7.045	81	36.07	93	58.07	1	70.15	296
17.0	7.022	137	69.35	176	28.340	90	71.55	181	7.126	111	35.14	108	58.06	7	67.19	297
27.0	7.159	173	67.59	187	28.430	125	69.74	161	7.237	142	34.06	124	58.13	16	64.22	285
Sept. 5.9	7.332	207	65.72	195	28.555	162	68.13	136	7.379	174	32.82	138	58.29	24	61.37	265
15.9	7.539	241	63.77	201	28.717	198	66.77	101	7.553	205	31.44	152	58.53	32	58.72	231
25.9	7.780	276	61.76	203	28.915	234	65.76	62	7.758	237	29.92	164	58.85	41	56.41	190
Okt. 5.9	8.056	308	59.73	203	29.149	268	65.14	17	7.995	268	28.28	176	59.26	47	54.51	138
15.8	8.364	337	57.70	198	29.417	298	64.97	31	8.263	297	26.52	182	59.73	53	53.13	80
25.8	8.701	362	55.72	188	29.715	322	65.28	81	8.560	321	24.70	186	60.26	57	52.33	16
Nov. 4.8	9.063	381	53.84	173	30.037	340	66.09	131	8.881	340	22.84	185	60.83	60	52.17	49
14.7	9.444	392	52.11	154	30.377	349	67.40	176	9.221	353	20.99	178	61.43	61	52.66	116
24.7	9.836	393	50.57	128	30.726	347	69.16	217	9.574	356	19.21	167	62.04	59	53.82	178
Dez. 4.7	10.229	383	49.29	99	31.073	337	71.33	251	9.930	349	17.54	149	62.63	56	55.60	236
14.7	10.612	361	48.30	66	31.410	314	73.84	278	10.279	332	16.05	126	63.19	51	57.96	287
24.6	10.973	329	47.64	30	31.724	282	76.62	296	10.611	305	14.79	99	63.70	45	60.83	329
34.6	11.302		47.34		32.006		79.58		10.916		13.80		64.15		64.12	
Mittl. Ort	4.961		76.26		27.381		63.91		5.191		41.71		60.17		55.36	
sec δ, tg δ	1.248		+0.747		1.126		−0.518		1.096		+0.449		2.338		−2.114	

Mittlere Zeit Greenw.	368) υ Ursae majoris AR.		Dekl.		370) 6 Sextantis AR.		Dekl.		372) Gr. 1586 AR.		Dekl.		378) π Leonis AR.		Dekl.	
	9h 45m		+59° 25′		9h 47m		−3° 50′		9h 50m		+73° 16′		9h 55m		+8° 26′	
Jan. 0.6	5.207 s	450	49.28″	86	1.796 s	260	58.97″	218	59.74 s	73	30.19″	135	48.339 s	274	46.40″	166
10.6	5.657	381	50.14	131	2.056	221	61.15	206	60.47	62	31.54	183	48.613	236	44.74	145
20.6	6.038	299	51.45	169	2.277	176	63.21	188	61.09	48	33.37	223	48.849	191	43.29	120
30.5	6.337	210	53.14	200	2.453	127	65.09	167	61.57	33	35.60	254	49.040	142	42.09	95
Feb. 9.5	6.547	116	55.14	222	2.580	78	66.76	144	61.90	17	38.14	272	49.182	92	41.14	69
19.5	6.663	25	57.36	232	2.658	30	68.20	118	62.07	1	40.86	281	49.274	43	40.45	45
29.5	6.688	63	59.68	234	2.688	13	69.38	94	62.08	13	43.67	275	49.317	2	40.00	23
März 10.4	6.625	141	62.02	223	2.675	51	70.32	70	61.95	28	46.42	260	49.315	41	39.77	3
20.4	6.484	206	64.25	204	2.624	82	71.02	47	61.67	39	49.02	233	49.274	73	39.74	14
30.4	6.278	259	66.29	176	2.542	103	71.49	25	61.28	50	51.35	198	49.201	98	39.88	26
Apr. 9.4	6.019	295	68.05	141	2.439	119	71.74	6	60.78	56	53.33	154	49.103	114	40.14	36
19.3	5.724	315	69.46	102	2.320	126	71.80	11	60.22	61	54.87	106	48.989	123	40.50	42
29.3	5.409	322	70.48	59	2.194	126	71.69	27	59.61	63	55.93	54	48.866	125	40.92	47
Mai 9.3	5.087	312	71.07	15	2.068	121	71.42	42	58.98	62	56.47	1	48.741	120	41.39	49
19.2	4.775	293	71.22	31	1.947	110	71.00	55	58.36	60	56.48	52	48.621	110	41.88	49
29.2	4.482	263	70.91	73	1.837	96	70.45	65	57.76	55	55.96	103	48.511	97	42.37	48
Juni 8.2	4.219	224	70.18	115	1.741	79	69.80	75	57.21	49	54.93	151	48.414	79	42.85	46
18.2	3.995	180	69.03	153	1.662	59	69.05	82	56.72	40	53.42	194	48.335	60	43.31	43
28.1	3.815	129	67.50	187	1.603	37	68.23	86	56.32	32	51.48	234	48.275	38	43.74	37
Juli 8.1	3.686	76	65.63	217	1.566	14	67.37	88	56.00	23	49.14	266	48.237	16	44.11	30
18.1	3.610	21	63.46	242	1.552	11	66.49	86	55.77	13	46.48	294	48.221	8	44.41	22
28.1	3.589	36	61.04	263	1.563	36	65.63	80	55.64	1	43.54	315	48.229	33	44.63	11
Aug. 7.0	3.625	93	58.41	278	1.599	63	64.83	70	55.63	9	40.39	330	48.262	60	44.74	2
17.0	3.718	152	55.63	289	1.662	92	64.13	56	55.72	19	37.09	338	48.322	88	44.72	17
27.0	3.870	209	52.74	294	1.754	120	63.57	38	55.91	31	33.71	340	48.410	116	44.55	36
Sept. 5.9	4.079	266	49.80	295	1.874	152	63.19	14	56.22	40	30.31	335	48.526	147	44.19	56
15.9	4.345	321	46.85	289	2.026	183	63.05	13	56.62	51	26.96	323	48.673	178	43.63	78
25.9	4.666	376	43.96	278	2.209	213	63.18	42	57.13	60	23.73	305	48.851	210	42.85	101
Okt. 5.9	5.042	427	41.18	262	2.422	244	63.60	74	57.73	69	20.68	281	49.061	240	41.84	123
15.8	5.469	472	38.56	239	2.666	272	64.34	106	58.42	77	17.87	249	49.301	270	40.61	146
25.8	5.941	512	36.17	210	2.938	296	65.40	137	59.19	84	15.38	210	49.571	295	39.15	165
Nov. 4.8	6.453	543	34.07	176	3.234	315	66.77	165	60.03	88	13.28	167	49.866	316	37.50	181
14.8	6.996	560	32.31	135	3.549	326	68.42	188	60.91	92	11.61	117	50.182	329	35.69	192
24.7	7.556	565	30.96	90	3.875	328	70.30	207	61.83	92	10.44	65	50.511	334	33.77	197
Dez. 4.7	8.121	554	30.06	42	4.203	323	72.37	219	62.75	90	9.79	7	50.845	331	31.80	196
14.7	8.675	526	29.64	7	4.526	305	74.56	224	63.65	85	9.72	48	51.176	316	29.84	189
24.6	9.201	481	29.71	57	4.831	279	76.80	222	64.50	78	10.20	104	51.492	291	27.95	176
34.6	9.682		30.28		5.110		79.02		65.28		11.24		51.783		26.19	
Mittl. Ort	1.745		64.39		0.099		57.16		54.19		46.99		46.568		51.81	
sec δ, tg δ	1.967		+1.693		1.002		−0.067		3.476		+3.329		1.011		+0.149	

Mittlere Zeit Greenw.	379) η Leonis				380) α Leonis				381) λ Hydrae				382) q Velorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$10^h\ 2^m$		$+17°\ 9'$		$10^h\ 3^m$		$+12°\ 22'$		$10^h\ 6^m$		$-11°\ 56'$		$10^h\ 11^m$		$-41°\ 42'$	
Jan. 0.6	47.167	289	73.81	127	55.802	283	34.59	150	31.140	274	18.45	250	13.854	312	11.54	321
10.6	47.456	250	72.54	101	56.085	246	33.09	127	31.414	236	20.95	245	14.166	264	14.75	339
20.6	47.706	205	71.53	72	56.331	201	31.82	100	31.650	191	23.40	232	14.430	208	18.14	346
30.6	47.911	155	70.81	43	56.532	152	30.82	73	31.841	143	25.72	216	14.638	150	21.60	345
Feb. 9.5	48.066	104	70.38	16	56.684	102	30.09	46	31.984	94	27.88	193	14.788	90	25.05	335
19.5	48.170	52	70.22	8	56.786	52	29.63	21	32.078	46	29.81	170	14.878	33	28.40	317
29.5	48.222	6	70.30	30	56.838	6	29.42	1	32.124	3	31.51	144	14.911	20	31.57	294
März 10.5	48.228	36	70.60	45	56.844	34	29.43	19	32.127	37	32.95	117	14.891	68	34.51	265
20.4	48.192	71	71.05	57	56.810	68	29.62	34	32.090	69	34.12	91	14.823	109	37.16	231
30.4	48.121	98	71.62	64	56.742	94	29.96	44	32.021	93	35.03	65	14.714	140	39.47	195
Apr. 9.4	48.023	116	72.26	66	56.648	112	30.40	50	31.928	111	35.68	39	14.574	165	41.42	155
19.3	47.907	126	72.92	65	56.536	122	30.90	54	31.817	122	36.07	16	14.409	181	42.97	114
29.3	47.781	130	73.57	61	56.414	125	31.44	54	31.695	125	36.23	7	14.228	191	44.11	72
Mai 9.3	47.651	125	74.18	54	56.289	122	31.98	53	31.570	123	36.16	28	14.037	193	44.83	28
19.3	47.526	117	74.72	46	56.167	113	32.51	49	31.447	117	35.88	48	13.844	189	45.11	15
29.2	47.409	103	75.18	36	56.054	101	33.00	44	31.330	106	35.40	67	13.655	180	44.96	57
Juni 8.2	47.306	87	75.54	25	55.953	84	33.44	37	31.224	91	34.73	83	13.475	166	44.39	97
18.2	47.219	66	75.79	14	55.869	65	33.81	31	31.133	75	33.90	97	13.309	147	43.42	134
28.2	47.153	45	75.93	3	55.804	45	34.12	22	31.058	56	32.93	108	13.162	124	42.08	167
Juli 8.1	47.108	22	75.96	11	55.759	22	34.34	11	31.002	35	31.85	115	13.038	97	40.41	194
18.1	47.086	3	75.85	24	55.737	1	34.45	1	30.967	11	30.70	118	12.941	67	38.47	217
28.1	47.089	29	75.61	39	55.738	27	34.46	12	30.956	13	29.52	117	12.874	31	36.30	231
Aug. 7.0	47.118	56	75.22	55	55.765	53	34.34	26	30.969	40	28.35	110	12.843	7	33.99	238
17.0	47.174	84	74.67	70	55.818	80	34.08	42	31.009	70	27.25	99	12.850	49	31.61	236
27.0	47.258	114	73.97	89	55.898	110	33.66	60	31.079	100	26.26	82	12.899	93	29.25	225
Sept. 6.0	47.372	145	73.08	106	56.008	141	33.06	80	31.179	132	25.44	58	12.992	140	27.00	204
15.9	47.517	177	72.02	125	56.149	172	32.26	100	31.311	165	24.86	30	13.132	187	24.96	174
25.9	47.694	209	70.77	143	56.321	204	31.26	121	31.476	200	24.56	2	13.319	234	23.22	135
Okt. 5.9	47.903	242	69.34	160	56.525	237	30.05	141	31.676	233	24.58	38	13.553	279	21.87	90
15.9	48.145	273	67.74	174	56.762	267	28.64	160	31.909	265	24.96	75	13.832	320	20.97	38
25.8	48.418	300	66.00	186	57.029	294	27.04	176	32.174	291	25.71	112	14.152	354	20.59	17
Nov. 4.8	48.718	322	64.14	193	57.323	316	25.28	188	32.465	314	26.83	148	14.506	380	20.76	75
14.8	49.040	338	62.21	194	57.639	331	23.40	194	32.779	328	28.31	180	14.886	395	21.51	130
24.7	49.378	344	60.27	190	57.970	338	21.46	196	33.107	334	30.11	208	15.281	400	22.81	184
Dez. 4.7	49.722	343	58.37	180	58.308	336	19.50	191	33.441	330	32.19	229	15.681	390	24.65	232
14.7	50.065	329	56.57	164	58.644	323	17.59	179	33.771	316	34.48	243	16.071	370	26.97	273
24.7	50.394	305	54.93	142	58.967	300	15.80	163	34.087	291	36.91	249	16.441	336	29.70	305
34.6	50.699		53.51		59.267		14.17		34.378		39.40		16.777		32.75	
Mittl. Ort	45.321		81.86		54.025		41.41		29.586		18.39		12.396		19.28	
sec δ, tg δ	1.047		+0.309		1.024		+0.219		1.022		−0.211		1.339		−0.891	

Mittlere Zeit Greenw.	384) ζ Leonis AR.		Dekl.		383) λ Ursae majoris AR.		Dekl.		386) μ Ursae majoris AR.		Dekl.		387) 30H. Urs. major. AR.		Dekl.	
	$10^h\ 12^m$		+23° 49′		$10^h\ 12^m$		+43° 19′		$10^h\ 17^m$		+41° 54′		$10^h\ 18^m$		+65° 58′	
Jan. 0.6	3.193	306	60.78	102	4.588	364	48.71	12	22.130	362	65.79	23	9.20	58	71.84	77
10.6	3.499	268	59.76	70	4.952	319	48.59	31	22.492	318	65.56	20	9.78	50	72.61	130
20.6	3.767	222	59.06	37	5.271	262	48.90	72	22.810	264	65.76	62	10.28	42	73.91	175
30.6	3.989	170	58.69	6	5.533	201	49.62	108	23.074	204	66.38	97	10.70	32	75.66	212
Feb. 9.5	4.159	117	58.63	24	5.734	134	50.70	137	23.278	140	67.35	128	11.02	20	77.78	241
19.5	4.276	64	58.87	49	5.868	70	52.07	159	23.418	75	68.63	152	11.22	9	80.19	258
29.5	4.340	15	59.36	68	5.938	6	53.66	172	23.493	14	70.15	167	11.31	2	82.77	264
März 10.5	4.355	31	60.04	82	5.944	51	55.38	177	23.507	42	71.82	172	11.29	12	85.41	259
20.4	4.324	67	60.86	92	5.893	100	57.15	174	23.465	90	73.54	171	11.17	21	88.00	241
30.4	4.257	98	61.78	93	5.793	138	58.89	161	23.375	129	75.25	160	10.96	29	90.41	216
Apr. 9.4	4.159	118	62.71	91	5.655	167	60.50	143	23.246	157	76.85	144	10.67	34	92.57	180
19.3	4.041	131	63.62	84	5.488	185	61.93	118	23.089	176	78.29	121	10.33	39	94.37	141
29.3	3.910	135	64.46	74	5.303	193	63.11	90	22.913	185	79.50	95	9.94	41	95.78	94
Mai 9.3	3.775	134	65.20	60	5.110	192	64.01	59	22.728	184	80.45	64	9.53	42	96.72	46
19.3	3.641	127	65.80	46	4.918	182	64.60	25	22.544	177	81.09	32	9.11	40	97.18	4
29.2	3.514	113	66.26	29	4.736	167	64.85	8	22.367	163	81.41	1	8.71	38	97.14	53
Juni 8.2	3.401	97	66.55	12	4.569	146	64.77	42	22.204	143	81.40	33	8.33	35	96.61	100
18.2	3.304	77	66.67	6	4.423	119	64.35	73	22.061	119	81.07	65	7.98	30	95.61	145
28.2	3.227	56	66.61	24	4.304	91	63.62	105	21.942	91	80.42	95	7.68	25	94.16	187
Juli 8.1	3.171	32	66.37	41	4.213	59	62.57	132	21.851	61	79.47	124	7.43	19	92.29	223
18.1	3.139	7	65.96	59	4.154	26	61.25	158	21.790	30	78.23	149	7.24	12	90.06	255
28.1	3.132	19	65.37	76	4.128	10	59.67	182	21.760	4	76.74	174	7.12	6	87.51	282
Aug. 7.0	3.151	48	64.61	94	4.138	46	57.85	202	21.764	40	75.00	194	7.06	2	84.69	303
17.0	3.199	76	63.67	111	4.184	85	55.83	219	21.804	76	73.06	212	7.08	9	81.66	319
27.0	3.275	108	62.56	129	4.269	123	53.64	234	21.880	115	70.94	228	7.17	16	78.47	328
Sept. 6.0	3.383	140	61.27	146	4.392	164	51.30	245	21.995	154	68.66	239	7.33	23	75.19	331
15.9	3.523	174	59.81	162	4.556	206	48.85	251	22.149	195	66.27	248	7.56	31	71.88	328
25.9	3.697	208	58.19	176	4.762	247	46.34	255	22.344	237	63.79	253	7.87	38	68.60	319
Okt. 5.9	3.905	242	56.43	189	5.009	288	43.79	253	22.581	277	61.26	252	8.25	45	65.41	303
15.9	4.147	275	54.54	198	5.297	327	41.26	246	22.858	316	58.74	247	8.70	52	62.38	279
25.8	4.422	305	52.56	204	5.624	361	38.80	232	23.174	351	56.27	236	9.22	57	59.59	249
Nov. 4.8	4.727	329	50.52	204	5.985	391	36.48	214	23.525	382	53.91	219	9.79	62	57.10	212
14.8	5.056	347	48.48	198	6.376	412	34.34	189	23.907	403	51.72	195	10.41	66	54.98	169
24.7	5.403	357	46.50	188	6.788	423	32.45	158	24.310	415	49.77	166	11.07	68	53.29	120
Dez. 4.7	5.760	356	44.62	170	7.211	423	30.87	121	24.725	417	48.11	130	11.75	67	52.09	66
14.7	6.116	344	42.92	147	7.634	410	29.66	82	25.142	404	46.81	92	12.42	65	51.43	12
24.7	6.460	322	41.45	120	8.044	383	28.84	38	25.546	379	45.89	48	13.07	62	51.31	45
34.6	6.782		40.25		8.427		28.46		25.925		45.41		13.69		51.76	
Mittl. Ort	1.295		71.01		2.225		63.38		19.852		80.52		5.43		90.33	
sec δ, tg δ	1.093		+0.442		1.375		+0.944		1.344		+0.898		2.458		+2.245	

Mittlere Zeit Greenw.	389) μ Hydrae AR.		389) μ Hydrae Dekl.		391) J Carinae AR.		391) J Carinae Dekl.		390) 31 Leonis minoris AR.		390) 31 Leonis minoris Dekl.		392) Lac. α Antliae AR.		392) Lac. α Antliae Dekl.	
	10h 22m		−16° 24′		10h 22m		−73° 36′		10h 23m		+37° 7′		10h 23m		−30° 38′	
Jan. 0.7	3.105	286	24.76	263	45.64	64	0.23	313	3.979	347	63.01	49	19.775	301	18.16	297
10.6	3.391	250	27.39	262	46.28	53	3.36	351	4.326	307	62.52	8	20.076	261	21.13	307
20.6	3.641	206	30.01	253	46.81	40	6.87	376	4.633	256	62.44	—31	20.337	213	24.20	310
30.6	3.847	158	32.54	240	47.21	26	10.63	393	4.889	201	62.75	68	20.550	161	27.30	304
Feb. 9.5	4.005	110	34.94	220	47.47	13	14.56	399	5.090	141	63.43	100	20.711	109	30.34	290
19.5	4.115	61	37.14	197	47.60	0	18.55	395	5.231	80	64.43	125	20.820	57	33.24	272
29.5	4.176	17	39.11	172	47.60	14	22.50	383	5.311	23	65.68	142	20.877	9	35.96	247
März 10.5	4.193	—24	40.83	145	47.46	25	26.33	363	5.334	—29	67.10	152	20.886	—35	38.43	220
20.4	4.169	57	42.28	118	47.21	35	29.96	334	5.305	75	68.62	154	20.851	70	40.63	189
30.4	4.112	83	43.46	90	46.86	45	33.30	300	5.230	111	70.16	148	20.781	101	42.52	156
Apr. 9.4	4.029	104	44.36	62	46.41	53	36.30	259	5.119	139	71.64	135	20.680	122	44.08	121
19.3	3.925	116	44.98	36	45.88	58	38.89	215	4.980	155	72.99	118	20.558	138	45.29	86
29.3	3.809	123	45.34	9	45.30	62	41.04	166	4.825	165	74.17	95	20.420	147	46.15	50
Mai 9.3	3.686	124	45.43	—16	44.68	66	42.70	114	4.660	166	75.12	70	20.273	149	46.65	15
19.3	3.562	120	45.27	39	44.02	67	43.84	60	4.494	159	75.82	42	20.124	147	46.80	—21
29.2	3.442	112	44.88	61	43.35	66	44.44	6	4.335	147	76.24	12	19.977	139	46.59	55
Juni 8.2	3.330	101	44.27	81	42.69	64	44.50	—48	4.188	130	76.36	—16	19.838	129	46.04	87
18.2	3.229	86	43.46	99	42.05	61	44.02	102	4.058	108	76.20	46	19.709	113	45.17	117
28.2	3.143	69	42.47	114	41.44	54	43.00	150	3.950	85	75.74	73	19.596	96	44.00	144
Juli 8.1	3.074	49	41.33	125	40.90	48	41.50	195	3.865	57	75.01	100	19.500	74	42.56	163
18.1	3.025	28	40.08	131	40.42	39	39.55	233	3.808	29	74.01	124	19.426	50	40.93	180
28.1	2.997	4	38.77	134	40.03	29	37.22	265	3.779	—1	72.77	148	19.376	21	39.13	191
Aug. 7.0	2.993	—24	37.43	130	39.74	17	34.57	287	3.780	33	71.29	168	19.355	—9	37.22	194
17.0	3.017	52	36.13	120	39.57	6	31.70	299	3.813	67	69.61	188	19.364	43	35.28	189
27.0	3.069	83	34.93	105	39.51	—8	28.71	302	3.880	103	67.73	205	19.407	81	33.39	178
Sept. 6.0	3.152	118	33.88	83	39.59	22	25.69	291	3.983	140	65.68	218	19.488	119	31.61	156
15.9	3.270	153	33.05	56	39.81	36	22.78	271	4.123	178	63.50	231	19.607	160	30.05	129
25.9	3.423	189	32.49	23	40.17	48	20.07	237	4.301	218	61.19	238	19.767	202	28.76	93
Okt. 5.9	3.612	225	32.26	—14	40.65	60	17.70	196	4.519	257	58.81	241	19.969	242	27.83	52
15.9	3.837	259	32.40	53	41.25	71	15.74	143	4.776	294	56.40	241	20.211	279	27.31	5
25.8	4.096	289	32.93	93	41.96	79	14.31	84	5.070	330	53.99	234	20.490	313	27.26	—44
Nov. 4.8	4.385	314	33.86	133	42.75	85	13.47	20	5.400	358	51.65	223	20.803	339	27.70	94
14.8	4.699	331	35.19	169	43.60	87	13.27	—46	5.758	381	49.42	204	21.142	357	28.64	143
24.8	5.030	339	36.88	201	44.47	88	13.73	112	6.139	393	47.38	178	21.499	364	30.07	188
Dez. 4.7	5.369	338	38.89	228	45.35	85	14.85	175	6.532	396	45.60	149	21.863	362	31.95	228
14.7	5.707	325	41.17	247	46.20	79	16.60	235	6.928	385	44.11	113	22.225	346	34.23	260
24.7	6.032	303	43.64	259	46.99	71	18.95	285	7.313	363	42.98	74	22.571	320	36.83	285
34.6	6.335		46.23		47.70		21.80		7.676		42.24		22.891		39.68	
Mittl. Ort	1.649		25.70		43.80		13.65		1.875		77.08		18.378		23.10	
sec δ, tg δ	1.042		−0.294		3.543		−3.399		1.254		+0.757		1.162		−0.592	

Mittlere Zeit Greenw.	393) *s* Carinae				394) 36 Ursae majoris				395) 9 H. Draconis				404) 33 Sextantis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	10h 24m		−58° 18′		10h 25m		+56° 24′		10h 27m		+76° 8′		10h 37m		−1° 17′	
Jan. 0.7	48.969	407	25.58	322	18.509	460	24.49	32	65.17	93	26.64	101	9.300	294	62.98	215
10.6	49.376	343	28.80	353	18.969	406	24.81	81	66.10	82	27.65	156	9.594	262	65.13	200
20.6	49.719	271	32.33	371	19.375	339	25.62	128	66.92	67	29.21	204	9.856	221	67.13	183
30.6	49.990	194	36.04	382	19.714	262	26.90	167	67.59	51	31.25	243	10.077	177	68.96	160
Feb. 9.6	50.184	116	39.86	381	19.976	179	28.57	198	68.10	33	33.68	270	10.254	129	70.56	135
19.5	50.300	38	43.67	372	20.155	95	30.55	221	68.43	15	36.38	288	10.383	82	71.91	110
29.5	50.338	34	47.39	355	20.250	12	32.76	232	68.58	4	39.26	292	10.465	38	73.01	85
März 10.5	50.304	99	50.94	330	20.262	63	35.08	232	68.54	21	42.18	284	10.503	3	73.86	60
20.4	50.205	157	54.24	299	20.199	130	37.40	223	68.33	38	45.02	263	10.500	37	74.46	38
30.4	50.048	205	57.23	263	20.069	186	39.63	205	67.95	50	47.65	234	10.463	65	74.84	17
Apr. 9.4	49.843	244	59.86	223	19.883	229	41.68	177	67.45	62	49.99	195	10.398	86	75.01	0
19.4	49.599	274	62.09	177	19.654	259	43.45	144	66.83	70	51.94	150	10.312	100	75.01	16
29.3	49.325	294	63.86	130	19.395	275	44.89	106	66.13	74	53.44	98	10.212	108	74.85	28
Mai 9.3	49.031	306	65.16	81	19.120	280	45.95	64	65.39	77	54.42	45	10.104	110	74.57	40
19.3	48.725	309	65.97	31	18.840	273	46.59	21	64.62	77	54.87	10	9.994	108	74.17	50
29.2	48.416	304	66.28	20	18.567	257	46.80	23	63.85	73	54.77	64	9.886	101	73.67	57
Juni 8.2	48.112	290	66.08	70	18.310	233	46.57	67	63.12	68	54.13	116	9.785	92	73.10	62
18.2	47.822	269	65.38	116	18.077	202	45.90	108	62.44	62	52.97	166	9.693	80	72.48	67
28.2	47.553	241	64.22	160	17.875	166	44.82	146	61.82	52	51.31	210	9.613	64	71.81	68
Juli 8.1	47.312	204	62.62	199	17.709	124	43.36	181	61.30	42	49.21	251	9.549	47	71.13	68
18.1	47.108	162	60.63	231	17.585	81	41.55	213	60.88	31	46.70	284	9.502	28	70.45	64
28.1	46.946	110	58.32	256	17.504	33	39.42	240	60.57	20	43.86	313	9.474	7	69.81	57
Aug. 7.1	46.836	54	55.76	273	17.471	15	37.02	264	60.37	8	40.73	334	9.467	17	69.24	48
17.0	46.782	7	53.03	280	17.486	67	34.38	281	60.29	6	37.39	349	9.484	43	68.76	35
27.0	46.789	76	50.23	277	17.553	119	31.57	295	60.35	18	33.90	358	9.527	73	68.41	17
Sept. 6.0	46.865	145	47.46	262	17.672	174	28.62	303	60.53	31	30.32	360	9.600	104	68.24	4
15.9	47.010	216	44.84	238	17.846	229	25.59	306	60.84	45	26.72	353	9.704	136	68.28	29
25.9	47.226	286	42.46	202	18.075	283	22.53	303	61.29	56	23.19	340	9.840	172	68.57	55
Okt. 5.9	47.512	352	40.44	158	18.358	337	19.50	294	61.85	68	19.79	320	10.012	207	69.12	84
15.9	47.864	411	38.86	105	18.695	389	16.56	278	62.53	80	16.59	292	10.219	241	69.96	113
25.8	48.275	461	37.81	46	19.084	434	13.78	256	63.33	89	13.67	257	10.460	272	71.09	141
Nov. 4.8	48.736	496	37.35	16	19.518	474	11.22	227	64.22	97	11.10	214	10.732	299	72.50	168
14.8	49.232	519	37.51	79	19.992	504	8.95	190	65.19	103	8.96	166	11.031	319	74.18	190
24.8	49.751	525	38.30	142	20.496	521	7.05	149	66.22	106	7.30	111	11.350	332	76.08	206
Dez. 4.7	50.276	513	39.72	200	21.017	524	5.56	103	67.28	107	6.19	54	11.682	334	78.14	217
14.7	50.789	484	41.72	254	21.541	511	4.53	51	68.35	103	5.65	7	12.016	326	80.31	221
24.7	51.273	441	44.26	298	22.052	481	4.02	0	69.38	98	5.72	67	12.342	308	82.52	218
34.6	51.714		47.24		22.533		4.02		70.36		6.39		12.650		84.70	
Mittl. Ort	47.522		36.84		15.665		42.32		59.47		46.65		7.823		58.97	
sec δ, tg δ	1.904		−1.620		1.808		+1.506		4.176		+4.055		1.000		−0.023	

Mittlere Zeit Greenw.	406) ϑ Argus				407) 42 Leon. minoris				408) μ Argus				409) l Leonis			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
	10h 39m		−63° 57′		10h 41m		+31° 6′		10h 43m		−48° 58′		10h 44m		+10° 58′	
Jan. 0.7	58.80	49	2.35	307	13.748	340	76.70	90	10.392	373	24.72	307	52.156	307	75.76	172
10.6	59.29	41	5.42	342	14.088	304	75.80	50	10.765	325	27.79	333	52.463	274	74.04	147
20.6	59.70	34	8.84	368	14.392	260	75.30	11	11.090	267	31.12	351	52.737	236	72.57	121
30.6	60.04	25	12.52	383	14.652	209	75.19	—26	11.357	207	34.63	359	52.973	190	71.36	92
Feb. 9.6	60.29	15	16.35	388	14.861	154	75.45	60	11.564	143	38.22	357	53.163	142	70.44	62
19.5	60.44	8	20.23	385	15.015	99	76.05	88	11.707	79	41.79	347	53.305	94	69.82	34
29.5	60.52	—2	24.08	372	15.114	45	76.93	111	11.786	19	45.26	331	53.399	47	69.48	9
März 10.5	60.50	10	27.80	353	15.159	—4	78.04	126	11.805	—35	48.57	306	53.446	6	69.39	—13
20.4	60.40	16	31.33	324	15.155	48	79.30	134	11.770	84	51.63	278	53.452	—31	69.52	31
30.4	60.24	23	34.57	291	15.107	83	80.64	135	11.686	124	54.41	244	53.421	60	69.83	45
Apr. 9.4	60.01	28	37.48	253	15.024	110	81.99	128	11.562	158	56.85	206	53.361	84	70.28	54
19.4	59.73	31	40.01	209	14.914	129	83.27	118	11.404	184	58.91	166	53.277	99	70.82	60
29.3	59.42	35	42.10	163	14.785	140	84.45	101	11.220	201	60.57	122	53.178	108	71.42	62
Mai 9.3	59.07	37	43.73	112	14.645	144	85.46	82	11.019	213	61.79	77	53.070	112	72.04	62
19.3	58.70	38	44.85	62	14.501	142	86.28	60	10.806	218	62.56	32	52.958	110	72.66	59
29.3	58.32	38	45.47	9	14.359	133	86.88	35	10.588	217	62.88	—15	52.848	104	73.25	54
Juni 8.2	57.94	37	45.56	—43	14.226	121	87.23	10	10.371	209	62.73	59	52.744	95	73.79	48
18.2	57.57	35	45.13	93	14.105	105	87.33	—16	10.162	196	62.14	102	52.649	83	74.27	40
28.2	57.22	33	44.20	140	14.000	86	87.17	40	9.966	177	61.12	142	52.566	67	74.67	30
Juli 8.1	56.89	28	42.80	184	13.914	64	86.77	66	9.789	153	59.70	177	52.499	51	74.97	20
18.1	56.61	24	40.96	220	13.850	40	86.11	89	9.636	124	57.93	207	52.448	32	75.17	8
28.1	56.37	18	38.76	251	13.810	14	85.22	112	9.512	87	55.86	230	52.416	11	75.25	—5
Aug. 7.1	56.19	11	36.25	273	13.796	—14	84.10	134	9.425	46	53.56	245	52.405	—13	75.20	21
17.0	56.08	3	33.52	286	13.810	43	82.76	155	9.379	0	51.11	252	52.418	39	74.99	38
27.0	56.05	—4	30.66	288	13.853	77	81.21	174	9.379	51	48.59	249	52.457	68	74.61	57
Sept. 6.0	56.09	13	27.78	279	13.930	112	79.47	192	9.430	106	46.10	237	52.525	99	74.04	78
16.0	56.22	22	24.99	259	14.042	149	77.55	208	9.536	163	43.73	213	52.624	132	73.26	99
25.9	56.44	30	22.40	228	14.191	186	75.47	220	9.699	219	41.60	180	52.756	167	72.27	122
Okt. 5.9	56.74	38	20.12	187	14.377	226	73.27	230	9.918	276	39.80	140	52.923	203	71.05	143
15.9	57.12	46	18.25	137	14.603	263	70.97	235	10.194	328	38.40	90	53.126	237	69.62	164
25.8	57.58	52	16.88	80	14.866	299	68.62	236	10.522	373	37.50	36	53.363	271	67.98	183
Nov. 4.8	58.10	57	16.08	18	15.165	330	66.26	230	10.895	409	37.14	—23	53.634	299	66.15	197
14.8	58.67	60	15.90	—47	15.495	355	63.96	219	11.304	434	37.37	82	53.933	321	64.18	207
24.8	59.27	61	16.37	111	15.850	370	61.77	201	11.738	445	38.19	140	54.254	336	62.11	210
Dez. 4.7	59.88	60	17.48	172	16.220	376	59.76	177	12.183	444	39.59	195	54.590	340	60.01	207
14.7	60.48	58	19.20	230	16.596	370	57.99	146	12.627	427	41.54	242	54.930	335	57.94	199
24.7	61.06	52	21.50	279	16.966	354	56.53	112	13.054	397	43.96	284	55.265	319	55.95	183
34.7	61.58		24.29		17.320		55.41		13.451		46.80		55.584		54.12	
Mittl. Ort	57.43		14.69		11.897		90.34		9.126		34.20		50.609		83.84	
sec δ, tg δ	2.277		—2.046		1.168		+0.604		1.524		—1.150		1.019		+0.194	

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Mittlere Zeit Greenw.	415) *i* Velorum AR.		415) Dekl.		416) β Ursae majoris AR.		416) Dekl.		417) α Ursae majoris AR.		417) Dekl.		418) γ Leonis AR.		418) Dekl.	
	10h 56m		−41° 46′		10h 56m		+56° 49′		10h 58m		+62° 11′		11h 0m		+7° 46′	
Jan. 0.7	19.021	356	22.81	293	49.452	487	38.56	2	36.18	56	56.14	16	42.540	311	77.73	188
10.6	19.377	316	25.74	316	49.939	442	38.54	53	36.74	50	56.30	72	42.851	282	75.85	166
20.6	19.693	267	28.90	330	50.381	382	39.07	104	37.24	43	57.02	125	43.133	244	74.19	142
30.6	19.960	213	32.20	336	50.763	311	40.11	149	37.67	36	58.27	170	43.377	202	72.77	113
Feb. 9.6	20.173	156	35.56	332	51.074	232	41.60	188	38.03	26	59.97	209	43.579	155	71.64	84
19.5	20.329	100	38.88	321	51.306	149	43.48	216	38.29	16	62.06	237	43.734	108	70.80	56
29.5	20.429	46	42.09	305	51.455	66	45.64	236	38.45	7	64.43	256	43.842	63	70.24	30
März 10.5	20.475	4	45.14	281	51.521	12	48.00	243	38.52	2	66.99	261	43.905	21	69.94	6
20.5	20.471	48	47.95	253	51.509	84	50.43	241	38.50	11	69.60	255	43.926	16	69.88	14
30.4	20.423	85	50.48	221	51.425	145	52.84	228	38.39	18	72.15	240	43.910	46	70.02	31
Apr. 9.4	20.338	115	52.69	187	51.280	197	55.12	204	38.21	24	74.55	215	43.864	70	70.33	43
19.4	20.223	140	54.56	149	51.083	234	57.16	176	37.97	29	76.70	182	43.794	88	70.76	52
29.3	20.083	156	56.05	109	50.849	261	58.92	140	37.68	32	78.52	142	43.706	99	71.28	57
Mai 9.3	19.927	168	57.14	69	50.588	275	60.32	100	37.36	34	79.94	98	43.607	106	71.85	60
19.3	19.759	174	57.83	28	50.313	278	61.32	56	37.02	34	80.92	52	43.501	106	72.45	60
29.3	19.585	174	58.11	13	50.035	272	61.88	11	36.68	34	81.44	3	43.395	103	73.05	58
Juni 8.2	19.411	170	57.98	54	49.763	256	61.99	35	36.34	32	81.47	45	43.292	97	73.63	54
18.2	19.241	161	57.44	92	49.507	234	61.64	78	36.02	30	81.02	92	43.195	87	74.17	49
28.2	19.080	146	56.52	128	49.273	205	60.86	120	35.72	26	80.10	137	43.108	75	74.66	42
Juli 8.2	18.934	128	55.24	159	49.068	170	59.66	161	35.46	22	78.73	178	43.033	61	75.08	33
18.1	18.806	105	53.65	186	48.898	132	58.05	196	35.24	17	76.95	216	42.972	44	75.41	23
28.1	18.701	76	51.79	207	48.766	89	56.09	228	35.07	13	74.79	250	42.928	24	75.64	11
Aug. 7.1	18.625	43	49.72	220	48.677	44	53.81	257	34.94	7	72.29	278	42.904	3	75.75	4
17.0	18.582	4	47.52	225	48.633	6	51.24	281	34.87	0	69.51	302	42.901	23	75.71	21
27.0	18.578	39	45.27	223	48.639	59	48.43	299	34.87	5	66.49	319	42.924	50	75.50	39
Sept. 6.0	18.617	86	43.04	209	48.698	113	45.44	313	34.92	11	63.30	332	42.974	81	75.11	59
16.0	18.703	135	40.95	187	48.811	171	42.31	320	35.03	19	59.98	338	43.055	115	74.52	82
25.9	18.838	186	39.08	158	48.982	228	39.11	323	35.22	25	56.60	337	43.170	150	73.70	106
Okt. 5.9	19.024	237	37.50	118	49.210	288	35.88	318	35.47	32	53.23	330	43.320	187	72.64	130
15.9	19.261	285	36.32	72	49.498	344	32.70	306	35.79	39	49.93	315	43.507	224	71.34	153
25.9	19.546	329	35.60	22	49.842	398	29.64	287	36.18	45	46.78	293	43.731	258	69.81	174
Nov. 4.8	19.875	364	35.38	33	50.240	446	26.77	262	36.63	50	43.85	263	43.989	289	68.07	192
14.8	20.239	391	35.71	88	50.686	485	24.15	227	37.13	55	41.22	225	44.278	313	66.15	205
24.8	20.630	407	36.59	142	51.171	511	21.88	187	37.68	58	38.97	181	44.591	331	64.10	213
Dez. 4.7	21.037	408	38.01	191	51.682	526	20.01	140	38.26	59	37.16	131	44.922	338	61.97	214
14.7	21.445	398	39.92	236	52.208	523	18.61	89	38.85	60	35.85	76	45.260	335	59.83	209
24.7	21.843	376	42.28	273	52.731	503	17.72	34	39.45	57	35.09	19	45.595	321	57.74	197
34.7	22.219		45.01		53.234		17.38		40.02		34.90		45.916		55.77	
Mittl. Ort	17.836		30.53		46.926		58.52		33.34		76.99		41.113		85.37	
sec δ, tg δ	1.341		−0.893		1.828		+1.530		2.145		+1.897		1.009		+0.137	

Mittlere Zeit Greenw.	420) ψ Ursae majoris AR.	Diff.	420) ψ Ursae majoris Dekl.	Diff.	421) β Crateris AR.	Diff.	421) β Crateris Dekl.	Diff.	422) δ Leonis AR.	Diff.	422) δ Leonis Dekl.	Diff.	423) ϑ Leonis AR.	Diff.	423) ϑ Leonis Dekl.	Diff.
	11h 4m		+44° 56′		11h 7m		−22° 21′		11h 9m		+20° 58′		11h 9m		+15° 52′	
Jan. 0.7	58.802		57.88		32.676		59.14		40.120		50.73		51.486		69.50	
10.7	59.206	404	57.33	55	32.998	322	61.78	264	40.451	331	49.26	147	51.810	324	67.85	165
20.6	59.575	369	57.27	6	33.288	290	64.49	271	40.754	303	48.12	114	52.105	295	66.50	135
30.6	59.897	322	57.70	43	33.539	251	67.20	271	41.019	265	47.33	79	52.364	259	65.45	105
Feb. 9.6	60.163	266	58.58	88	33.746	207	69.84	264	41.241	222	46.90	43	52.580	216	64.74	71
19.5	60.367	204	59.85	127	33.905	159	72.35	251	41.414	173	46.82	8	52.749	169	64.36	38
29.5	60.507	140	61.44	159	34.017	112	74.68	233	41.538	124	47.05	23	52.870	121	64.29	7
März 10.5	60.582	75	63.26	182	34.083	66	76.78	210	41.613	75	47.55	50	52.944	74	64.48	19
20.5	60.596	14	65.24	198	34.106	23	78.64	186	41.643	30	48.28	73	52.975	31	64.91	43
30.4	60.555	41	67.26	202	34.093	13	80.23	159	41.632	11	49.17	89	52.966	9	65.52	61
Apr. 9.4	60.467	88	69.24	198	34.048	45	81.55	132	41.587	45	50.16	99	52.924	42	66.26	74
19.4	60.340	127	71.09	185	33.977	71	82.58	103	41.515	72	51.19	103	52.857	67	67.08	82
29.4	60.184	156	72.74	165	33.887	90	83.33	75	41.422	93	52.21	102	52.770	87	67.92	84
Mai 9.3	60.007	177	74.12	138	33.784	103	83.80	47	41.316	106	53.18	97	52.669	101	68.75	83
19.3	59.820	187	75.21	109	33.671	113	83.98	18	41.201	115	54.05	87	52.561	108	69.54	79
29.3	59.629	191	75.94	73	33.554	117	83.89	9	41.084	117	54.80	75	52.450	111	70.24	70
Juni 8.2	59.442	187	76.32	38	33.437	117	83.55	34	40.969	115	55.39	59	52.341	109	70.84	60
18.2	59.265	177	76.32	0	33.323	114	82.95	60	40.860	109	55.82	43	52.239	102	71.33	49
28.2	59.104	161	75.95	37	33.217	106	82.12	83	40.761	99	56.06	24	52.144	95	71.68	35
Juli 8.2	58.961	143	75.21	74	33.120	97	81.09	103	40.674	87	56.12	6	52.061	83	71.89	21
18.1	58.842	119	74.12	109	33.036	84	79.90	119	40.601	73	55.98	14	51.993	68	71.93	4
28.1	58.750	92	72.70	142	32.969	67	78.56	134	40.547	54	55.63	35	51.941	52	71.82	11
Aug. 7.1	58.688	62	70.97	173	32.922	47	77.15	141	40.512	35	55.08	55	51.907	34	71.53	29
17.1	58.659	29	68.96	201	32.899	23	75.71	144	40.500	12	54.33	75	51.897	10	71.05	48
27.0	58.666	7	66.71	225	32.903	4	74.29	142	40.514	14	53.36	97	51.911	14	70.38	67
Sept. 6.0	58.711	45	64.24	247	32.940	37	72.97	132	40.556	42	52.18	118	51.953	42	69.50	88
16.0	58.799	88	61.60	264	33.012	72	71.81	116	40.631	75	50.80	138	52.026	73	68.41	109
25.9	58.931	132	58.82	278	33.123	111	70.88	93	40.741	110	49.21	159	52.134	108	67.11	130
Okt. 5.9	59.110	179	55.95	287	33.274	151	70.24	64	40.888	147	47.42	179	52.278	144	65.60	151
15.9	59.337	227	53.04	291	33.467	193	69.94	30	41.073	185	45.45	197	52.460	182	63.88	172
25.9	59.611	274	50.16	288	33.701	234	70.03	9	41.298	225	43.35	210	52.679	219	61.99	189
Nov. 4.8	59.929	318	47.37	279	33.972	271	70.54	51	41.559	261	41.13	222	52.936	257	59.94	205
14.8	60.288	359	44.73	264	34.277	305	71.47	93	41.853	294	38.85	228	53.225	289	57.79	215
24.8	60.680	392	42.33	240	34.607	330	72.82	135	42.175	322	36.57	228	53.541	316	55.58	221
Dez. 4.8	61.097	417	40.22	211	34.954	347	74.54	172	42.518	343	34.35	222	53.876	335	53.38	220
14.7	61.526	429	38.49	173	35.308	354	76.61	207	42.870	352	32.26	209	54.221	345	51.25	213
24.7	61.956	430	37.18	131	35.658	350	78.94	233	43.222	352	30.36	190	54.565	344	49.26	199
34.7	62.371	415	36.34	84	35.992	334	81.48	254	43.563	341	28.72	164	54.898	333	47.48	178
Mittl. Ort	56.817		76.06		31.487		61.15		38.607		62.82		50.033		80.03	
sec δ, tg δ	1.413		+0.998		1.081		−0.411		1.071		+0.384		1.040		+0.285	

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Mittlere Zeit Greenw.	425) ν Ursae majoris AR.		Dekl.		426) δ Crateris AR.		Dekl.		427) σ Leonis AR.		Dekl.		428) π Centauri AR.		Dekl.	
	11h 13m		+33° 32′		11h 15m		−14° 19′		11h 16m		+6° 28′		11h 17m		−54° 1′	
Jan. 0.7	58.408	362	54.21	105	9.570	318	26.46	246	49.678	317	75.80	195	11.286	440	39.37	277
10.7	58.770	332	53.16	62	9.888	289	28.92	246	49.995	291	73.85	176	11.726	395	42.14	312
20.6	59.102	292	52.54	19	10.177	253	31.38	239	50.286	256	72.09	151	12.121	339	45.26	337
30.6	59.394	245	52 35	$\overline{24}$	10.430	210	33.77	227	50.542	215	70.58	124	12.460	276	48.63	353
Feb. 9.6	59.639	192	52.59	62	10.640	166	36.04	209	50.757	171	69.34	95	12.736	210	52.16	361
19.5	59.831	137	53.21	97	10.806	119	38.13	188	50.928	124	68.39	65	12.946	143	55.77	360
29.5	59.968	83	54.18	123	10.925	76	40.01	165	51.052	80	67.74	39	13.089	78	59.37	350
März 10.5	60.051	31	55.41	143	11.001	34	41.66	139	51.132	37	67.35	13	13.167	16	62.87	333
20.5	60.082	$\overline{15}$	56.84	154	11.035	$\overline{3}$	43.05	114	51.169	1	67.22	$\overline{8}$	13.183	$\overline{40}$	66.20	310
30.4	60.067	55	58.38	159	11.032	33	44.19	89	51.170	$\overline{31}$	67.30	25	13.143	89	69.30	282
Apr. 9.4	60.012	88	59.97	154	10.999	58	45.08	64	51.139	57	67.55	40	13.054	132	72.12	248
19.4	59.924	112	61.51	145	10.941	78	45.72	41	51.082	75	67.95	49	12.922	169	74.60	210
29.4	59.812	130	62.96	128	10.863	91	46.13	18	51.007	90	68.44	57	12.753	196	76.70	170
Mai 9.3	59.682	141	64.24	108	10.772	101	46.31	$\overline{4}$	50.917	98	69.01	60	12.557	218	78.40	125
19.3	59.541	144	65.32	83	10.671	105	46.27	24	50.819	101	69.61	62	12.339	234	79.65	79
29.3	59.397	142	66.15	57	10.566	106	46.03	43	50.718	101	70.23	60	12.105	242	80.44	32
Juni 8.2	59.255	136	66.72	28	10.460	103	45.60	61	50.617	97	70.83	58	11.863	244	80.76	$\overline{15}$
18.2	59.119	126	67.00	$\overline{1}$	10.357	97	44.99	75	50.520	91	71.41	53	11.619	239	80.61	61
28.2	58.993	111	66.99	30	10.260	89	44.24	89	50.429	81	71.94	47	11.380	228	80.00	106
Juli 8.2	58.882	95	66.69	60	10.171	78	43.35	99	50.348	69	72.41	38	11.152	209	78.94	147
18.1	58.787	74	66.09	88	10.093	62	42.36	106	50.279	54	72.79	29	10.943	182	77.47	183
28.1	58.713	51	65.21	115	10.031	44	41.30	109	50.225	37	73.08	17	10.761	149	75.64	214
Aug. 7.1	58.662	25	64.06	140	9.987	23	40.21	108	50.188	17	73.25	3	10.612	108	73.50	238
17.1	58.637	$\overline{4}$	62.66	166	9.964	$\overline{2}$	39.13	101	50.171	$\overline{7}$	73.28	$\overline{14}$	10.504	59	71.12	252
27.0	58.641	36	61.00	188	9.966	32	38.12	89	50.178	35	73.14	32	10.445	3	68.60	259
Sept. 6.0	58.677	72	59.12	208	9.998	65	37.23	72	50.213	65	72.82	52	10.442	$\overline{57}$	66.01	255
16.0	58.749	110	57.04	226	10.063	101	36.51	49	50.278	98	72.30	75	10.499	122	63.46	240
25.9	58.859	150	54.78	242	10.164	139	36.02	21	50.376	135	71.55	100	10.621	190	61.06	215
Okt. 5.9	59.009	193	52.36	253	10.303	179	35.81	$\overline{10}$	50.511	173	70.55	123	10.811	256	58.91	181
15.9	59.202	236	49.83	259	10.482	219	35.91	45	50.684	211	69.32	148	11.067	320	57.10	137
25.9	59.438	276	47.24	260	10.701	256	36.36	82	50.895	247	67.84	170	11.387	378	55.73	86
Nov. 4.8	59.714	313	44.64	255	10.957	290	37.18	118	51.142	280	66.14	190	11.765	427	54.87	30
14.8	60.027	345	42.09	244	11.247	316	38.36	153	51.422	307	64.24	205	12.192	463	54.57	$\overline{29}$
24.8	60.372	367	39.65	224	11.563	335	39.89	183	51.729	327	62.19	214	12.655	487	54.86	89
Dez. 4.8	60.739	380	37.41	199	11.898	343	41.72	209	52.056	337	60.05	218	13.142	493	55.75	147
14.7	61.119	382	35.42	166	12.241	341	43.81	229	52.393	337	57.87	214	13.635	485	57.22	201
24.7	61.501	371	33.76	129	12.582	329	46.10	240	52.730	327	55.73	203	14.120	461	59.23	249
34.7	61.872		32.47		12.911		48.50		53.057		53.70		14.581		61.72	
Mittl. Ort	56.745		70.07		8.380		25.73		48.353		83.54		10.273		49.95	
sec δ, tg δ	1.200		+0.663		1.032		−0.255		1.006		+0.114		1.703		−1.378	

Mittlere Zeit Greenw.	429) Gr. 1771				433) λ Draconis				434) ξ Hydrae				436) λ Centauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	11h 17m		+64° 46′		11h 26m		+69° 46′		11h 28m		−31° 23′		11h 31m		−62° 33′	
	s		″		s		″		s		″		s		″	
Jan. 0.7	55.31	61	63.17	1	29.06	73	78.02	6	53.055	349	29.33	263	54.84	54	5.63	255
10.7	55.92	56	63.18	60	29.79	68	78.08	67	53.404	320	31.96	281	55.38	50	8.18	296
20.6	56.48	50	63.78	116	30.47	60	78.75	125	53.724	280	34.77	290	55.88	43	11.14	330
30.6	56.98	41	64.94	167	31.07	51	80.00	177	54.004	237	37.67	292	56.31	35	14.44	354
Feb. 9.6	57.39	31	66.61	208	31.58	39	81.77	220	54.241	188	40.59	286	56.66	28	17.98	369
19.5	57.70	22	68.69	241	31.97	27	83.97	254	54.429	139	43.45	275	56.94	20	21.67	375
29.5	57.92	12	71.10	262	32.24	15	86.51	275	54.568	91	46.20	258	57.14	11	25.42	372
März 10.5	58.04	1	73.72	272	32.39	2	89.26	286	54.659	47	48.78	236	57.25	4	29.14	361
20.5	58.05	9	76.44	270	32.41	10	92.12	284	54.706	6	51.14	211	57.29	3	32.75	343
30.4	57.96	16	79.14	258	32.31	20	94.96	270	54.712	30	53.25	184	57.26	10	36.18	318
Apr. 9.4	57.80	24	81.72	234	32.11	29	97.66	246	54.682	58	55.09	154	57.16	16	39.36	286
19.4	57.56	30	84.06	203	31.82	38	100.12	213	54.624	83	56.63	124	57.00	20	42.22	252
29.4	57.26	34	86.09	164	31.44	43	102.25	172	54.541	102	57.87	91	56.80	25	44.74	210
Mai 9.3	56.92	37	87.73	120	31.01	47	103.97	127	54.439	116	58.78	58	56.55	28	46.84	166
19.3	56.55	39	88.93	72	30.54	50	105.24	77	54.323	125	59.36	26	56.27	31	48.50	119
29.3	56.16	39	89.65	22	30.04	50	106.01	24	54.198	130	59.62	7	55.96	33	49.69	69
Juni 8.2	55.77	37	89.87	27	29.54	50	106.25	28	54.068	132	59.55	38	55.63	34	50.38	19
18.2	55.40	35	89.60	77	29.04	47	105.97	80	53.936	129	59.17	69	55.29	33	50.57	32
28.2	55.05	32	88.83	125	28.57	43	105.17	130	53.807	123	58.48	98	54.96	33	50.25	81
Juli 8.2	54.73	29	87.58	169	28.14	39	103.87	176	53.684	112	57.50	122	54.63	31	49.44	128
18.1	54.44	23	85.89	210	27.75	33	102.11	220	53.572	97	56.28	144	54.32	27	48.16	171
28.1	54.21	18	83.79	247	27.42	27	99.91	258	53.475	78	54.84	160	54.05	24	46.45	208
Aug. 7.1	54.03	13	81.32	279	27.15	20	97.33	291	53.397	55	53.24	171	53.81	18	44.37	239
17.1	53.90	7	78.53	306	26.95	12	94.42	319	53.342	26	51.53	176	53.63	13	41.98	261
27.0	53.83	1	75.47	326	26.83	4	91.23	340	53.316	10	49.77	172	53.50	5	39.37	275
Sept. 6.0	53.84	7	72.21	341	26.79	5	87.83	356	53.326	48	48.05	162	53.45	3	36.62	277
16.0	53.91	15	68.80	350	26.84	14	84.27	363	53.374	91	46.43	143	53.48	11	33.85	269
25.9	54.06	22	65.30	352	26.98	23	80.64	366	53.465	136	45.00	117	53.59	19	31.16	250
Okt. 5.9	54.28	30	61.78	346	27.21	33	76.98	358	53.601	183	43.83	85	53.78	29	28.66	219
15.9	54.58	37	58.32	333	27.54	41	73.40	344	53.784	229	42.98	44	54.07	36	26.47	179
25.9	54.95	45	54.99	312	27.95	51	69.96	320	54.013	273	42.54	1	54.43	45	24.68	131
Nov. 4.8	55.40	51	51.87	283	28.46	59	66.76	291	54.286	312	42.53	45	54.88	51	23.37	75
14.8	55.91	57	49.04	245	29.05	66	63.85	250	54.598	342	42.98	92	55.39	55	22.62	15
24.8	56.48	61	46.59	201	29.71	71	61.35	204	54.940	365	43.90	138	55.94	59	22.47	47
Dez. 4.8	57.09	63	44.58	150	30.42	75	59.31	151	55.305	375	45.28	180	56.53	60	22.94	109
14.7	57.72	64	43.08	94	31.17	76	57.80	92	55.680	374	47.08	216	57.13	60	24.03	168
24.7	58.36	62	42.14	35	31.93	74	56.88	31	56.054	361	49.24	247	57.73	57	25.71	222
34.7	58.98		41.79		32.67		56.57		56.415		51.71		58.30		27.93	
Mittl. Ort	52.55		85.45		25.98		101.29		52.029		33.83		53.99		17.83	
sec δ, tg δ	2.348		+2.124		2.895		+2.717		1.171		−0.610		2.170		−1.925	

Mittlere Zeit Greenw.	437) υ Leonis AR.		437) υ Leonis Dekl.		440) 3 Draconis AR.		440) 3 Draconis Dekl.		441) χ Ursae majoris AR.		441) χ Ursae majoris Dekl.		444) β Leonis AR.		444) β Leonis Dekl.	
	11h 32m		−0° 21′		11h 37m		+67° 11′		11h 41m		+48° 14′		11h 44m		+15° 1′	
Jan. 0.7	40.051	321	41.60	215	50.59	67	72.24	17	38.952	436	22.06	82	47.809	334	78.59	181
10.7	40.372	297	43.75	202	51.26	62	72.07	—46	39.388	409	21.24	27	48.143	312	76.78	154
20.6	40.669	265	45.77	183	51.88	56	72.53	103	39.797	369	20.97	—27	48.455	281	75.24	121
30.6	40.934	226	47.60	161	52.44	48	73.56	158	40.166	317	21.24	78	48.736	243	74.03	86
Feb. 9.6	41.160	183	49.21	135	52.92	39	75.14	204	40.483	258	22.02	124	48.979	200	73.17	52
19.6	41.343	138	50.56	108	53.31	27	77.18	241	40.741	193	23.26	163	49.179	154	72.65	19
29.5	41.481	95	51.64	82	53.58	17	79.59	266	40.934	127	24.89	194	49.333	109	72.46	—12
März 10.5	41.576	54	52.46	56	53.75	5	82.25	280	41.061	63	26.83	214	49.442	65	72.58	38
20.5	41.630	17	53.02	32	53.80	—5	85.05	282	41.124	2	28.97	225	49.507	26	72.96	60
30.5	41.647	—14	53.34	11	53.75	15	87.87	273	41.126	—53	31.22	227	49.533	—9	73.56	76
Apr. 9.4	41.633	41	53.45	—7	53.60	24	90.60	252	41.073	99	33.49	217	49.524	38	74.32	87
19.4	41.592	62	53.38	22	53.36	30	93.12	223	40.974	138	35.66	200	49.486	62	75.19	92
29.4	41.530	77	53.16	34	53.06	36	95.35	185	40.836	167	37.66	176	49.424	80	76.11	94
Mai 9.3	41.453	88	52.82	44	52.70	40	97.20	142	40.669	188	39.42	145	49.344	92	77.05	90
19.3	41.365	94	52.38	51	52.30	43	98.62	94	40.481	201	40.87	110	49.252	101	77.95	83
29.3	41.271	97	51.87	57	51.87	43	99.56	44	40.280	206	41.97	71	49.151	104	78.78	74
Juni 8.3	41.174	96	51.30	60	51.44	44	100.00	—8	40.074	204	42.68	30	49.047	105	79.52	61
18.2	41.078	93	50.70	61	51.00	41	99.92	59	39.870	198	42.98	—10	48.942	102	80.13	49
28.2	40.985	86	50.09	62	50.59	39	99.33	109	39.672	184	42.88	52	48.840	97	80.62	33
Juli 8.2	40.899	76	49.47	58	50.20	36	98.24	157	39.488	167	42.36	92	48.743	88	80.95	16
18.2	40.823	65	48.89	55	49.84	31	96.67	200	39.321	145	41.44	131	48.655	76	81.11	—2
28.1	40.758	49	48.34	47	49.53	26	94.67	241	39.176	119	40.13	167	48.579	61	81.09	20
Aug. 7.1	40.709	30	47.87	37	49.27	19	92.26	276	39.057	88	38.46	200	48.518	43	80.89	39
17.1	40.679	9	47.50	25	49.08	13	89.50	305	38.969	53	36.46	230	48.475	21	80.50	60
27.0	40.670	—19	47.25	8	48.95	6	86.45	330	38.916	14	34.16	257	48.454	—5	79.90	82
Sept. 6.0	40.689	48	47.17	—12	48.89	—1	83.15	347	38.902	—30	31.59	279	48.459	35	79.08	104
16.0	40.737	83	47.29	34	48.90	10	79.68	360	38.932	77	28.80	297	48.494	69	78.04	127
26.0	40.820	119	47.63	59	49.00	18	76.08	363	39.009	127	25.83	310	48.563	106	76.77	150
Okt. 5.9	40.939	159	48.22	86	49.18	27	72.45	361	39.136	180	22.73	317	48.669	147	75.27	171
15.9	41.098	198	49.08	113	49.45	36	68.84	349	39.316	234	19.56	317	48.816	187	73.56	191
25.9	41.296	236	50.21	141	49.81	43	65.35	330	39.550	287	16.39	310	49.003	226	71.65	209
Nov. 4.8	41.532	271	51.62	166	50.24	52	62.05	302	39.837	335	13.29	296	49.229	265	69.56	221
14.8	41.803	300	53.28	188	50.76	58	59.03	266	40.172	379	10.33	274	49.494	296	67.35	229
24.8	42.103	322	55.16	206	51.34	63	56.37	222	40.551	413	7.59	244	49.790	322	65.06	231
Dez. 4.8	42.425	336	57.22	216	51.97	67	54.15	171	40.964	436	5.15	206	50.112	339	62.75	226
14.7	42.761	337	59.38	220	52.64	68	52.44	114	41.400	447	3.09	162	50.451	344	60.49	213
24.7	43.098	329	61.58	219	53.32	68	51.30	53	41.847	442	1.47	113	50.795	339	58.36	195
34.7	43.427		63.77		54.00		50.77		42.289		0.34		51.134		56.41	
Mittl. Ort	38.869		35.73		47.98		95.80		37.230		42.66		46.582		90.02	
sec δ, tg δ	1.000		−0.006		2.582		+2.380		1.502		+1.120		1.036		+0.269	

Mittlere Zeit Greenw.	445) β Virginis				447) γ Ursae majoris				450) ο Virginis				452) δ Centauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	11h 46m		+2° 13'		11h 49m		+54° 8'		12h 0m		+9° 11'		12h 3m		−50° 15'	
Jan. 0.7	20.306	328	70.05	211	26.929	484	80.26	72	56.930	333	48.08	199	60.602	452	7.22	231
10.7	20.634	306	67.94	196	27.413	456	79.54	13	57.263	315	46.09	176	61.054	421	9.53	267
20.7	20.940	276	65.98	175	27.869	414	79.41	43	57.578	286	44.33	150	61.475	380	12.20	297
30.6	21.216	239	64.23	150	28.283	359	79.84	97	57.864	251	42.83	119	61.855	330	15.17	318
Feb. 9.6	21.455	197	62.73	124	28.642	294	80.81	145	58.115	210	41.64	87	62.185	274	18.35	329
19.6	21.652	154	61.49	94	28.936	223	82.26	186	58.325	168	40.77	55	62.459	217	21.64	334
29.5	21.806	110	60.55	67	29.159	148	84.12	218	58.493	124	40.22	24	62.676	159	24.98	331
März 10.5	21.916	69	59.88	40	29.307	76	86.30	238	58.617	83	39.98	3	62.835	102	28.29	320
20.5	21.985	32	59.48	17	29.383	6	88.68	248	58.700	43	40.01	27	62.937	49	31.49	303
30.5	22.017	0	59.31	3	29.389	58	91.16	248	58.743	10	40.28	47	62.986	0	34.52	282
Apr. 9.4	22.017	29	59.34	21	29.331	113	93.64	238	58.753	20	40.75	61	62.986	44	37.34	255
19.4	21.988	50	59.55	35	29.218	159	96.02	217	58.733	44	41.36	71	62.942	82	39.89	224
29.4	21.938	68	59.90	45	29.059	196	98.19	190	58.689	63	42.07	76	62.860	116	42.13	189
Mai 9.4	21.870	80	60.35	52	28.863	223	100.09	156	58.626	78	42.83	79	62.744	144	44.02	152
19.3	21.790	89	60.87	57	28.640	240	101.65	117	58.548	88	43.62	77	62.600	168	45.54	111
29.3	21.701	93	61.44	60	28.400	248	102.82	74	58.460	94	44.39	74	62.432	186	46.65	70
Juni 8.3	21.608	94	62.04	61	28.152	249	103.56	30	58.366	99	45.13	67	62.246	199	47.35	25
18.2	21.514	93	62.65	59	27.903	243	103.86	15	58.267	98	45.80	58	62.047	206	47.60	17
28.2	21.421	88	63.24	56	27.660	230	103.71	61	58.169	96	46.38	48	61.841	208	47.43	60
Juli 8.2	21.333	81	63.80	51	27.430	211	103.10	104	58.073	91	46.86	36	61.633	202	46.83	100
18.2	21.252	71	64.31	44	27.219	186	102.06	146	57.982	81	47.22	23	61.431	189	45.83	138
28.1	21.181	57	64.75	35	27.033	156	100.60	184	57.901	70	47.45	7	61.242	169	44.45	171
Aug. 7.1	21.124	40	65.10	23	26.877	122	98.76	221	57.831	54	47.52	9	61.073	141	42.74	199
17.1	21.084	18	65.33	9	26.755	83	96.55	252	57.777	34	47.43	26	60.932	105	40.75	220
27.0	21.066	6	65.42	8	26.672	38	94.03	280	57.743	9	47.17	47	60.827	60	38.55	232
Sept. 6.0	21.072	37	65.34	28	26.634	11	91.23	302	57.734	20	46.70	69	60.767	8	36.23	236
16.0	21.109	70	65.06	51	26.645	65	88.21	320	57.754	52	46.01	91	60.759	50	33.87	230
26.0	21.179	107	64.55	75	26.710	122	85.01	332	57.806	90	45.10	115	60.809	114	31.57	214
Okt. 5.9	21.286	146	63.80	101	26.832	181	81.69	337	57.896	130	43.95	140	60.923	179	29.43	189
15.9	21.432	188	62.79	127	27.013	242	78.32	336	58.026	172	42.55	162	61.102	244	27.54	153
25.9	21.620	226	61.52	152	27.255	302	74.96	326	58.198	212	40.93	184	61.346	306	26.01	112
Nov. 4.9	21.846	263	60.00	176	27.557	358	71.70	308	58.410	251	39.09	202	61.652	362	24.89	61
14.8	22.109	295	58.24	196	27.915	407	68.62	283	58.661	285	37.07	215	62.014	409	24.28	10
24.8	22.404	319	56.28	209	28.322	448	65.79	248	58.946	313	34.92	224	62.423	443	24.18	47
Dez. 4.8	22.723	334	54.19	220	28.770	476	63.31	207	59.259	330	32.68	226	62.866	465	24.65	101
14.7	23.057	339	51.99	220	29.246	491	61.24	159	59.589	340	30.42	220	63.331	471	25.66	155
24.7	23.396	335	49.79	216	29.737	488	59.65	104	59.929	337	28.22	208	63.802	462	27.21	202
34.7	23.731		47.63		30.225		58.61		60.266		26.14		64.264		29.23	
Mittl. Ort	19.185		77.17		25.134		102.36		55.849		57.99		59.920		16.50	
sec δ, tg δ	1.001		+0.039		1.708		+1.385		1.013		+0.162		1.564		−1.203	

Mittlere Zeit Greenw.	453) ε Corvi				454) 4 H. Draconis			
	AR.		Dekl.		AR.		Dekl.	
	12h 5m		−22° 9′		12h 8m		+78° 4′	
Jan. 0.7	48.976	349	8.46	236	19.98	117	33.07	26
10.7	49.325	328	10.82	247	21.15	111	32.81	39
20.7	49.653	297	13.29	251	22.26	104	33.20	102
30.6	49.950	261	15.80	248	23.30	91	34.22	160
Feb. 9.6	50.211	220	18.28	238	24.21	76	35.82	211
19.6	50.431	176	20.66	224	24.97	57	37.93	253
29.6	50.607	133	22.90	206	25.54	38	40.46	282
März 10.5	50.740	91	24.96	186	25.92	18	43.28	301
20.5	50.831	52	26.82	162	26.10	2	46.29	306
30.5	50.883	18	28.44	138	26.08	22	49.35	299
Apr. 9.5	50.901	12	29.82	114	25.86	39	52.34	280
19.4	50.889	38	30.96	88	25.47	54	55.14	251
29.4	50.851	58	31.84	64	24.93	68	57.65	213
Mai 9.4	50.793	76	32.48	39	24.25	79	59.78	169
19.3	50.717	89	32.87	15	23.46	85	61.47	119
29.3	50.628	100	33.02	8	22.61	91	62.66	65
Juni 8.3	50.528	105	32.94	32	21.70	93	63.31	10
18.3	50.423	110	32.62	53	20.77	92	63.41	45
28.2	50.313	110	32.09	73	19.85	89	62.96	100
Juli 8.2	50.203	106	31.36	90	18.96	84	61.96	152
18.2	50.097	98	30.46	105	18.12	76	60.44	200
28.2	49.999	87	29.41	116	17.36	68	58.44	244
Aug. 7.1	49.912	70	28.25	123	16.68	58	56.00	284
17.1	49.842	49	27.02	125	16.10	46	53.16	317
27.1	49.793	20	25.77	121	15.64	32	49.99	344
Sept. 6.0	49.773	12	24.56	112	15.32	19	46.55	366
16.0	49.785	50	23.44	95	15.13	4	42.89	379
26.0	49.835	92	22.49	72	15.09	12	39.10	385
Okt. 6.0	49.927	136	21.77	45	15.21	29	35.25	383
15.9	50.063	183	21.32	12	15.50	44	31.42	372
25.9	50.246	228	21.20	24	15.94	60	27.70	353
Nov. 4.9	50.474	269	21.44	64	16.54	75	24.17	325
14.9	50.743	304	22.08	102	17.29	90	20.92	287
24.8	51.047	333	23.10	138	18.19	100	18.05	242
Dez. 4.8	51.380	351	24.48	173	19.19	109	15.63	188
14.8	51.731	358	26.21	202	20.28	115	13.75	129
24.7	52.089	355	28.23	223	21.43	117	12.46	65
34.7	52.444		30.46		22.60		11.81	
Mittl. Ort	48.113		9.39		16.76		58.73	
sec δ, tg δ	1.080		−0.407		4.843		+4.739	

Mittlere Zeit Greenw.	456) δ Ursae majoris				459) β Chamaeleonis			
	AR.		Dekl.		AR.		Dekl.	
	12h 11m		+57° 29′		12h 13m		−78° 50′	
Jan. 0.7	18.143	520	33.80	87	23.32	125	31.05	174
10.7	18.663	498	32.93	27	24.57	117	32.79	228
20.7	19.161	460	32.66	33	25.74	105	35.07	276
30.6	19.621	408	32.99	90	26.79	91	37.83	316
Feb. 9.6	20.029	343	33.89	143	27.70	76	40.99	348
19.6	20.372	271	35.32	188	28.46	60	44.47	369
29.6	20.643	192	37.20	224	29.06	42	48.16	383
März 10.5	20.835	115	39.44	248	29.48	25	51.99	388
20.5	20.950	37	41.92	262	29.73	7	55.87	383
30.5	20.987	34	44.54	266	29.80	8	59.70	372
Apr. 9.5	20.953	97	47.20	257	29.72	24	63.42	352
19.4	20.856	153	49.77	239	29.48	39	66.94	326
29.4	20.703	199	52.16	213	29.09	52	70.20	292
Mai 9.4	20.504	234	54.29	180	28.57	65	73.12	254
19.3	20.270	260	56.09	139	27.92	74	75.66	209
29.3	20.010	276	57.48	97	27.18	82	77.75	160
Juni 8.3	19.734	284	58.45	51	26.36	89	79.35	108
18.3	19.450	283	58.96	3	25.47	93	80.43	54
28.2	19.167	275	58.99	45	24.54	94	80.97	2
Juli 8.2	18.892	260	58.54	92	23.60	92	80.95	56
18.2	18.632	238	57.62	136	22.68	87	80.39	111
28.2	18.394	211	56.26	179	21.81	80	79.28	161
Aug. 7.1	18.183	175	54.47	219	21.01	70	77.67	204
17.1	18.008	136	52.28	253	20.31	56	75.63	244
27.1	17.872	89	49.75	284	19.75	39	73.19	272
Sept. 6.0	17.783	38	46.91	310	19.36	22	70.47	293
16.0	17.745	20	43.81	330	19.14	1	67.54	301
26.0	17.765	81	40.51	345	19.13	20	64.53	298
Okt. 6.0	17.846	148	37.06	352	19.33	41	61.55	284
15.9	17.994	214	33.54	352	19.74	61	58.71	257
25.9	18.208	282	30.02	344	20.35	81	56.14	219
Nov. 4.9	18.490	346	26.58	328	21.16	98	53.95	172
14.9	18.836	404	23.30	302	22.14	112	52.23	116
24.8	19.240	455	20.28	269	23.26	122	51.07	56
Dez. 4.8	19.695	492	17.59	226	24.48	128	50.51	8
14.8	20.187	514	15.33	177	25.76	131	50.59	72
24.7	20.701	521	13.56	122	27.07	128	51.31	134
34.7	21.222		12.34		28.35		52.65	
Mittl. Ort	16.528		57.25		23.55		45.11	
sec δ, tg δ	1.861		+1.570		5.169		−5.072	

Mittlere Zeit Greenw.	460) η Virginis				462) α Crucis med.				466) 20 Comae				465) δ Corvi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	12h 15m		−0° 12′		12h 21m		−62° 37′		12h 25m		+21° 21′		12h 25m		−16° 2′	
Jan. 0.7	37.402	334	7.24	215	55.61	60	50.86	193	31.160	351	25.39	186	31.731	345	53.99	225
10.7	37.736	317	9.39	204	56.21	56	52.79	241	31.511	336	23.53	151	32.076	329	56.24	230
20.7	38.053	291	11.43	185	56.77	52	55.20	281	31.847	313	22.02	112	32.405	303	58.54	229
30.7	38.344	258	13.28	163	57.29	45	58.01	313	32.160	279	20.90	73	32.708	271	60.83	222
Feb. 9.6	38.602	220	14.91	136	57.74	39	61.14	336	32.439	241	20.17	31	32.979	233	63.05	208
19.6	38.822	180	16.27	109	58.13	31	64.50	351	32.680	198	19.86	—8	33.212	192	65.13	191
29.6	39.002	138	17.36	81	58.44	24	68.01	357	32.878	153	19.94	43	33.404	151	67.04	171
März 10.5	39.140	98	18.17	55	58.68	16	71.58	357	33.031	109	20.37	75	33.555	111	68.75	149
20.5	39.238	60	18.72	29	58.84	9	75.15	347	33.140	68	21.12	99	33.666	73	70.24	126
30.5	39.298	27	19.01	7	58.93	2	78.62	331	33.208	29	22.11	118	33.739	39	71.50	103
Apr. 9.5	39.325	—2	19.08	—10	58.95	—5	81.93	310	33.237	—5	23.29	129	33.778	9	72.53	80
19.4	39.323	27	18.98	26	58.90	10	85.03	281	33.232	32	24.58	135	33.787	—16	73.33	58
29.4	39.296	48	18.72	39	58.80	15	87.84	249	33.200	57	25.93	133	33.771	39	73.91	38
Mai 9.4	39.248	63	18.33	49	58.65	21	90.33	211	33.143	77	27.26	126	33.732	58	74.29	18
19.4	39.185	76	17.84	55	58.44	24	92.44	169	33.066	91	28.52	116	33.674	73	74.47	—1
29.3	39.109	85	17.29	59	58.20	28	94.13	123	32.975	102	29.68	100	33.601	85	74.46	19
Juni 8.3	39.024	92	16.70	62	57.92	30	95.36	76	32.873	109	30.68	82	33.516	94	74.27	35
18.3	38.932	94	16.08	62	57.62	32	96.12	27	32.764	113	31.50	62	33.422	100	73.92	50
28.2	38.838	96	15.46	60	57.30	33	96.39	—22	32.651	114	32.12	39	33.322	104	73.42	65
Juli 8.2	38.742	93	14.86	57	56.97	33	96.17	71	32.537	111	32.51	16	33.218	103	72.77	75
18.2	38.649	87	14.29	52	56.64	32	95.46	117	32.426	105	32.67	—8	33.115	99	72.02	85
28.2	38.562	77	13.77	44	56.32	29	94.29	160	32.321	95	32.59	34	33.016	92	71.17	92
Aug. 7.1	38.485	64	13.33	34	56.03	25	92.69	198	32.226	80	32.25	59	32.924	77	70.25	94
17.1	38.421	45	12.99	21	55.78	20	90.71	229	32.146	62	31.66	85	32.847	60	69.31	93
27.1	38.376	22	12.78	5	55.58	14	88.42	252	32.084	39	30.81	111	32.787	35	68.38	87
Sept. 6.1	38.354	—6	12.73	—13	55.44	7	85.90	266	32.045	9	29.70	136	32.752	6	67.51	76
16.0	38.360	39	12.86	34	55.37	—1	83.24	269	32.036	—24	28.34	161	32.746	—30	66.75	60
26.0	38.399	77	13.20	57	55.38	10	80.55	262	32.060	63	26.73	184	32.776	69	66.15	38
Okt. 6.0	38.476	117	13.77	84	55.48	19	77.93	243	32.123	104	24.89	207	32.845	113	65.77	12
15.9	38.593	159	14.61	111	55.67	28	75.50	215	32.227	148	22.82	225	32.958	159	65.65	—17
25.9	38.752	202	15.72	137	55.95	37	73.35	176	32.375	193	20.57	241	33.117	203	65.82	50
Nov. 4.9	38.954	241	17.09	162	56.32	45	71.59	128	32.568	237	18.16	252	33.320	246	66.32	84
14.9	39.195	277	18.71	184	56.77	52	70.31	75	32.805	275	15.64	256	33.566	284	67.16	117
24.8	39.472	307	20.55	201	57.29	57	69.56	17	33.080	308	13.08	253	33.850	314	68.33	150
Dez. 4.8	39.779	326	22.56	214	57.86	60	69.39	—43	33.388	333	10.55	244	34.164	337	69.83	177
14.8	40.105	337	24.70	219	58.46	62	69.82	103	33.721	347	8.11	227	34.501	347	71.60	200
24.8	40.442	337	26.89	218	59.08	60	70.85	158	34.068	351	5.84	202	34.848	349	73.60	216
34.7	40.779		29.07		59.68		72.43		34.419		3.82		35.197		75.76	
Mittl. Ort	36.468		0.28		55.24		62.53		30.157		39.97		30.944		52.44	
sec δ, tg δ	1.000		−0.003		2.175		−1.932		1.074		+0.391		1.041		−0.288	

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Mittlere Zeit Greenw.	470) 8 Canum ven.				472) ϰ Draconis				471) β Corvi				473) 24 Comae sq.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$12^h\ 29^m$		$+41°\ 48'$		$12^h\ 29^m$		$+70°\ 14'$		$12^h\ 29^m$		$-22°\ 55'$		$12^h\ 30^m$		$+18°\ 49'$	
Jan. 0.7	46.566	406	28.77	146	56.07	75	38.33	77	58.992	357	55.81	223	56.006	347	67.74	193
10.7	46.972	393	27.31	94	56.82	74	37.56	11	59.349	341	58.04	236	56.353	335	65.81	160
20.7	47.365	366	26.37	41	57.56	69	37.45	53	59.690	315	60.40	242	56.688	311	64.21	124
30.7	47.731	330	25.96	13	58.25	63	37.98	114	60.005	281	62.82	241	56.999	279	62.97	85
Feb. 9.6	48.061	284	26.09	64	58.88	53	39.12	171	60.286	243	65.23	234	57.278	242	62.12	46
19.6	48.345	232	26.73	111	59.41	43	40.83	218	60.529	202	67.57	222	57.520	201	61.66	7
29.6	48.577	178	27.84	150	59.84	31	43.01	255	60.731	160	69.79	205	57.721	157	61.59	29
März 10.6	48.755	122	29.34	183	60.15	20	45.56	281	60.891	119	71.84	187	57.878	114	61.88	59
20.5	48.877	68	31.17	204	60.35	7	48.37	295	61.010	81	73.71	166	57.992	74	62.47	86
30.5	48.945	18	33.21	218	60.42	5	51.32	298	61.091	46	75.37	143	58.066	36	63.33	105
Apr. 9.5	48.963	27	35.39	220	60.37	16	54.30	287	61.137	14	76.80	120	58.102	2	64.38	118
19.4	48.936	67	37.59	216	60.21	26	57.17	267	61.151	14	78.00	96	58.104	25	65.56	125
29.4	48.869	99	39.75	201	59.95	34	59.84	236	61.137	38	78.96	73	58.079	50	66.81	126
Mai 9.4	48.770	127	41.76	180	59.61	40	62.20	199	61.099	57	79.69	49	58.029	69	68.07	121
19.4	48.643	147	43.56	152	59.21	47	64.19	155	61.042	75	80.18	26	57.960	84	69.28	113
29.3	48.496	161	45.08	122	58.74	50	65.74	106	60.967	88	80.44	3	57.876	96	70.41	99
Juni 8.3	48.335	171	46.30	86	58.24	52	66.80	54	60.879	100	80.47	20	57.780	105	71.40	84
18.3	48.164	176	47.16	49	57.72	53	67.34	1	60.779	107	80.27	40	57.675	109	72.24	66
28.3	47.988	175	47.65	9	57.19	52	67.35	52	60.672	112	79.87	61	57.566	111	72.90	45
Juli 8.2	47.813	170	47.74	30	56.67	50	66.83	104	60.560	113	79.26	79	57.455	109	73.35	24
18.2	47.643	160	47.44	68	56.17	47	65.79	154	60.447	109	78.47	94	57.346	104	73.59	2
28.2	47.483	146	46.76	107	55.70	43	64.25	201	60.338	101	77.53	107	57.242	96	73.61	23
Aug. 7.1	47.337	127	45.69	143	55.27	37	62.24	243	60.237	88	76.46	116	57.146	82	73.38	46
17.1	47.210	102	44.26	178	54.90	31	59.81	282	60.149	69	75.30	120	57.064	65	72.92	71
27.1	47.108	72	42.48	210	54.59	24	56.99	314	60.080	44	74.10	118	56.999	41	72.21	96
Sept. 6.1	47.036	37	40.38	239	54.35	16	53.85	341	60.036	12	72.92	112	56.958	14	71.25	120
16.0	46.999	4	37.99	264	54.19	7	50.44	360	60.024	25	71.80	99	56.944	19	70.05	146
26.0	47.003	50	35.35	285	54.12	3	46.84	375	60.049	67	70.81	80	56.963	57	68.59	170
Okt. 6.0	47.053	99	32.50	302	54.15	13	43.09	380	60.116	113	70.01	54	57.020	98	66.89	193
16.0	47.152	152	29.48	313	54.28	23	39.29	378	60.229	160	69.47	24	57.118	142	64.96	213
25.9	47.304	204	26.35	317	54.51	34	35.51	366	60.389	208	69.23	11	57.260	187	62.83	230
Nov. 4.9	47.508	257	23.18	313	54.85	43	31.85	345	60.597	252	69.34	47	57.447	230	60.53	242
14.9	47.765	304	20.05	302	55.28	54	28.40	316	60.849	292	69.81	84	57.677	269	58.11	250
24.8	48.069	344	17.03	283	55.82	61	25.24	277	61.141	324	70.65	122	57.946	303	55.61	250
Dez. 4.8	48.413	376	14.20	254	56.43	69	22.47	230	61.465	347	71.87	156	58.249	327	53.11	243
14.8	48.789	397	11.66	217	57.12	72	20.17	175	61.812	360	73.43	186	58.576	343	50.68	229
24.8	49.186	405	9.49	174	57.84	76	18.42	114	62.172	360	75.29	209	58.919	348	48.39	207
34.7	49.591		7.75		58.60		17.28		62.532		77.38		59.267		46.32	
Mittl. Ort	45.428		49.38		54.30		64.00		58.270		56.54		55.056		81.61	
sec δ, tg δ	1.342		+0.895		2.959		+2.785		1.086		−0.423		1.057		+0.341	

Mittlere Zeit Greenw.	474) α Muscae AR.		474) α Muscae Dekl.		476) γ Centauri AR.		476) γ Centauri Dekl.		478) 76 Ursae maj. AR.		478) 76 Ursae maj. Dekl.		481) β Crucis AR.		481) β Crucis Dekl.	
	12h 32m		−68° 40′		12h 36m		−48° 29′		12h 37m		+63° 9′		12h 42m		−59° 13′	
Jan. 0.7	9.76	74	10.09	169	53.061	456	46.81	197	55.43	59	61.72	104	48.419	562	36.49	172
10.7	10.50	70	11.78	220	53.517	435	48.78	235	56.02	59	60.68	42	48.981	538	38.21	219
20.7	11.20	64	13.98	265	53.952	403	51.13	265	56.61	54	60.26	22	49.519	500	40.40	258
30.7	11.84	58	16.63	302	54.355	362	53.78	289	57.15	50	60.48	84	50.019	450	42.98	291
Feb. 9.6	12.42	49	19.65	332	54.717	313	56.67	303	57.65	43	61.32	140	50.469	392	45.89	315
19.6	12.91	40	22.97	351	55.030	261	59.70	312	58.08	36	62.72	190	50.861	329	49.04	332
29.6	13.31	31	26.48	364	55.291	208	62.82	312	58.44	26	64.62	231	51.190	263	52.36	339
März 10.6	13.62	22	30.12	367	55.499	155	65.94	306	58.70	18	66.93	261	51.453	197	55.75	340
20.5	13.84	13	33.79	362	55.654	104	69.00	294	58.88	8	69.54	280	51.650	131	59.15	333
30.5	13.97	4	37.41	351	55.758	56	71.94	277	58.96	0	72.34	286	51.781	70	62.48	320
Apr. 9.5	14.01	4	40.92	332	55.814	11	74.71	254	58.96	8	75.20	281	51.851	10	65.68	302
19.4	13.97	12	44.24	307	55.825	29	77.25	229	58.88	16	78.01	266	51.861	44	68.70	276
29.4	13.85	19	47.31	275	55.796	65	79.54	199	58.72	21	80.67	241	51.817	94	71.46	247
Mai 9.4	13.66	26	50.06	239	55.731	98	81.53	165	58.51	27	83.08	208	51.723	140	73.93	213
19.4	13.40	31	52.45	198	55.633	127	83.18	130	58.24	31	85.16	168	51.583	180	76.06	175
29.3	13.09	36	54.43	153	55.506	150	84.48	92	57.93	34	86.84	123	51.403	216	77.81	133
Juni 8.3	12.73	40	55.96	104	55.356	171	85.40	52	57.59	36	88.07	75	51.187	245	79.14	88
18.3	12.33	43	57.00	53	55.185	185	85.92	11	57.23	37	88.82	26	50.942	267	80.02	42
28.3	11.90	44	57.53	1	55.000	195	86.03	30	56.86	36	89.08	27	50.675	281	80.44	5
Juli 8.2	11.46	44	57.54	50	54.805	198	85.73	69	56.50	36	88.81	76	50.394	286	80.39	51
18.2	11.02	44	57.04	101	54.607	193	85.04	106	56.14	34	88.05	125	50.108	282	79.88	97
28.2	10.58	40	56.03	148	54.414	182	83.98	142	55.80	31	86.80	172	49.826	266	78.91	139
Aug. 7.1	10.18	35	54.55	189	54.232	163	82.56	170	55.49	27	85.08	214	49.560	240	77.52	176
17.1	9.83	30	52.66	226	54.069	133	80.86	195	55.22	23	82.94	254	49.320	202	75.76	209
27.1	9.53	22	50.40	255	53.936	96	78.91	211	54.99	18	80.40	289	49.118	152	73.67	233
Sept. 6.1	9.31	13	47.85	273	53.840	49	76.80	221	54.81	12	77.51	318	48.966	91	71.34	250
16.0	9.18	3	45.12	282	53.791	5	74.59	220	54.69	6	74.33	341	48.875	20	68.84	256
26.0	9.15	9	42.30	280	53.796	65	72.39	210	54.63	2	70.92	359	48.855	58	66.28	252
Okt. 6.0	9.24	20	39.50	266	53.861	129	70.29	192	54.65	9	67.33	370	48.913	142	63.76	238
16.0	9.44	32	36.84	241	53.990	196	68.37	163	54.74	18	63.63	370	49.055	226	61.38	212
25.9	9.76	43	34.43	206	54.186	260	66.74	126	54.92	26	59.93	365	49.281	309	59.26	178
Nov. 4.9	10.19	53	32.37	160	54.446	320	65.48	83	55.18	33	56.28	350	49.590	386	57.48	135
14.9	10.72	61	30.77	108	54.766	372	64.65	35	55.51	42	52.78	325	49.976	452	56.13	84
24.8	11.33	69	29.69	50	55.138	415	64.30	17	55.93	48	49.53	291	50.428	506	55.29	31
Dez. 4.8	12.02	73	29.19	11	55.553	444	64.47	70	56.41	53	46.62	249	50.934	544	54.98	27
14.8	12.75	75	29.30	72	55.997	461	65.17	120	56.94	57	44.13	198	51.478	565	55.25	84
24.8	13.50	74	30.02	131	56.458	461	66.37	168	57.51	58	42.15	141	52.043	568	56.09	138
34.7	14.24		31.33		56.919		68.05		58.09		40.74		52.611		57.47	
Mittl. Ort	9.68		22.59		52.593		55.09		54.06		86.71		48.170		47.10	
sec δ, tg δ	2.749		−2.561		1.509		−1.130		2.216		+1.977		1.955		−1.680	

Mittlere Zeit Greenw.	482) η Centauri AR.		482) Dekl.		483) ε Ursae majoris AR.		483) Dekl.		484) δ Virginis AR.		484) Dekl.		485) 12 Can. ven. sq. AR.		485) Dekl.	
	$12^h 48^m$	Diff.	$-39° 43'$	Diff.	$12^h 50^m$	Diff.	$+56° 24'$	Diff.	$12^h 51^m$	Diff.	$+3° 50'$	Diff.	$12^h 52^m$	Diff.	$+38° 45'$	Diff.
Jan. 0.8	47.170		14.86		21.348		31.89		23.034		63.98		6.964		58.19	
10.7	47.582	412	16.81	195	21.854	506	30.53	136	23.371	337	61.85	213	7.357	393	56.46	173
20.7	47.979	397	19.08	227	22.351	497	29.78	75	23.699	328	59.88	197	7.743	386	55.23	123
30.7	48.350	371	21.58	250	22.824	473	29.65	13	24.007	308	58.13	175	8.108	365	54.52	71
Feb. 9.6	48.686	336	24.25	267	23.258	434	30.13	48	24.287	280	56.64	149	8.442	334	54.35	17
19.6	48.981	295	27.01	276	23.639	381	31.18	105	24.534	247	55.45	119	8.737	295	54.70	35
29.6	49.231	250	29.79	278	23.957	318	32.76	158	24.745	211	54.56	89	8.985	248	55.54	84
März 10.6	49.436	205	32.54	275	24.206	249	34.78	202	24.916	171	53.98	58	9.184	199	56.81	127
20.5	49.594	158	35.20	266	24.383	177	37.13	235	25.048	132	53.69	29	9.331	147	58.44	163
30.5	49.708	114	37.72	252	24.486	103	39.72	259	25.143	95	53.66	3	9.427	96	60.34	190
Apr. 9.5	49.780	72	40.06	234	24.520	34	42.44	272	25.204	61	53.86	20	9.476	49	62.41	207
19.5	49.815	35	42.19	213	24.488	32	45.16	272	25.234	30	54.25	39	9.481	5	64.57	216
29.4	49.814	1	44.08	189	24.397	91	47.79	263	25.237	3	54.79	54	9.446	35	66.73	216
Mai 9.4	49.781	33	45.69	161	24.254	143	50.22	243	25.216	21	55.43	64	9.378	68	68.79	206
19.4	49.720	61	47.02	133	24.068	186	52.38	216	25.174	42	56.14	71	9.282	96	70.69	190
29.3	49.634	86	48.04	102	23.846	222	54.20	182	25.115	59	56.89	75	9.161	121	72.36	167
Juni 8.3	49.526	108	48.73	69	23.598	248	55.62	142	25.042	73	57.63	74	9.023	138	73.76	140
18.3	49.400	126	49.09	36	23.331	267	56.60	98	24.958	84	58.36	73	8.870	153	74.83	107
28.3	49.259	141	49.11	2	23.054	277	57.11	51	24.864	94	59.04	68	8.709	161	75.55	72
Juli 8.2	49.107	152	48.79	32	22.772	282	57.14	3	24.765	99	59.65	61	8.543	166	75.90	35
18.2	48.951	156	48.14	65	22.494	278	56.70	44	24.662	103	60.19	54	8.377	166	75.87	3
28.2	48.794	157	47.18	96	22.227	267	55.78	92	24.560	102	60.63	44	8.216	161	75.45	42
Aug. 7.2	48.645	149	45.95	123	21.977	250	54.39	139	24.462	98	60.95	32	8.064	152	74.66	79
17.1	48.509	136	44.48	147	21.752	225	52.58	181	24.374	88	61.13	18	7.926	138	73.49	117
27.1	48.395	114	42.82	166	21.558	194	50.37	221	24.299	75	61.16	3	7.808	118	71.97	152
Sept. 6.1	48.311	84	41.03	179	21.404	154	47.79	258	24.245	54	61.01	15	7.717	91	70.11	186
16.0	48.264	47	39.19	184	21.295	109	44.89	290	24.216	29	60.66	35	7.657	60	67.94	217
26.0	48.262	2	37.38	181	21.239	56	41.73	316	24.218	2	60.10	56	7.634	23	65.49	245
Okt. 6.0	48.311	49	35.68	170	21.242	3	38.35	338	24.256	38	59.30	80	7.655	21	62.79	270
16.0	48.415	104	34.17	151	21.309	67	34.82	353	24.335	79	58.25	105	7.724	69	59.89	290
25.9	48.577	162	32.93	124	21.445	136	31.22	360	24.458	123	56.96	129	7.844	120	56.84	305
Nov. 4.9	48.797	220	32.03	90	21.651	206	27.62	360	24.625	167	55.42	154	8.017	173	53.71	313
14.9	49.072	275	31.54	49	21.925	274	24.12	350	24.837	212	53.65	177	8.243	226	50.56	315
24.9	49.395	323	31.48	6	22.264	339	20.80	332	25.088	251	51.69	196	8.517	274	47.47	309
Dez. 4.8	49.758	363	31.88	40	22.661	397	17.76	304	25.373	285	49.58	211	8.834	317	44.53	294
14.8	50.151	393	32.75	87	23.106	445	15.08	268	25.685	312	47.39	219	9.186	352	41.83	270
24.8	50.561	410	34.06	131	23.585	479	12.86	222	26.014	329	45.17	222	9.563	377	39.44	239
34.7	50.975	414	35.77	171	24.083	498	11.16	170	26.350	336	43.00	217	9.952	389	37.45	199
Mittl. Ort	46.685		20.50		20.284		55.99		22.293		73.09		6.058		78.40	
sec δ, tg δ	1.300		−0.831		1.808		+1.506		1.002		+0.067		1.283		+0.803	

Mittlere Zeit Greenw.	486) 8 Draconis AR.		Dekl.		488) ε Virginis AR.		Dekl.		490) ϑ Virginis AR.		Dekl.		492) 43 Comae AR.		Dekl.	
	$12^h 52^m$		$+65° 52'$		$12^h 57^m$		$+11° 24'$		$13^h 5^m$		$-5° 5'$		$13^h 7^m$		$+28° 17'$	
Jan. 0.8	9.33 s	64	72.75 ″	117	60.462 s	340	25.50 ″	209	36.561 s	341	33.31 ″	212	58.020 s	361	55.71 ″	197
10.7	9.97	63	71.58	52	60.802	333	23.41	185	36.902	333	35.43	207	58.381	355	53.74	157
20.7	10.60	61	71.06	13	61.135	314	21.56	156	37.235	315	37.50	195	58.736	340	52.17	112
30.7	11.21	55	71.19	76	61.449	287	20.00	123	37.550	289	39.45	178	59.076	313	51.05	64
Feb. 9.7	11.76	49	71.95	136	61.736	255	18.77	88	37.839	259	41.23	156	59.389	280	50.41	16
19.6	12.25	41	73.31	188	61.991	218	17.89	51	38.098	223	42.79	132	59.669	241	50.25	30
29.6	12.66	32	75.19	231	62.209	179	17.38	16	38.321	185	44.11	106	59.910	198	50.55	73
März 10.6	12.98	22	77.50	263	62.388	140	17.22	15	38.506	149	45.17	80	60.108	154	51.28	109
20.5	13.20	11	80.13	285	62.528	101	17.37	43	38.655	113	45.97	55	60.262	111	52.37	140
30.5	13.31	2	82.98	294	62.629	66	17.80	66	38.768	79	46.52	33	60.373	70	53.77	162
Apr. 9.5	13.33	7	85.92	291	62.695	33	18.46	84	38.847	48	46.85	12	60.443	32	55.39	177
19.5	13.26	15	88.83	278	62.728	4	19.30	96	38.895	21	46.97	6	60.475	3	57.16	182
29.4	13.11	23	91.61	254	62.732	20	20.26	103	38.916	5	46.91	21	60.472	33	58.98	182
Mai 9.4	12.88	29	94.15	222	62.712	42	21.29	105	38.911	26	46.70	32	60.439	59	60.80	174
19.4	12.59	33	96.37	183	62.670	61	22.34	102	38.885	45	46.38	42	60.380	82	62.54	159
29.3	12.26	38	98.20	138	62.609	75	23.36	96	38.840	62	45.96	50	60.298	100	64.13	141
Juni 8.3	11.88	41	99.58	90	62.534	89	24.32	88	38.778	76	45.46	55	60.198	115	65.54	117
18.3	11.47	42	100.48	39	62.445	98	25.20	76	38.702	87	44.91	59	60.083	127	66.71	91
28.3	11.05	42	100.87	14	62.347	104	25.96	62	38.615	97	44.32	60	59.956	134	67.62	61
Juli 8.2	10.63	42	100.73	65	62.243	108	26.58	47	38.518	103	43.72	61	59.822	138	68.23	31
18.2	10.21	40	100.08	115	62.135	108	27.05	29	38.415	104	43.11	59	59.684	139	68.54	0
28.2	9.81	37	98.93	164	62.027	105	27.34	11	38.311	103	42.52	56	59.545	134	68.54	33
Aug. 7.2	9.44	34	97.29	209	61.922	95	27.45	9	38.208	96	41.96	49	59.411	125	68.21	65
17.1	9.10	30	95.20	250	61.827	82	27.36	29	38.112	84	41.47	41	59.286	111	67.56	97
27.1	8.80	24	92.70	287	61.745	63	27.07	52	38.028	65	41.06	30	59.175	90	66.59	128
Sept. 6.1	8.56	17	89.83	318	61.682	37	26.55	75	37.963	40	40.76	14	59.085	63	65.31	158
16.0	8.39	10	86.65	344	61.645	7	25.80	99	37.923	9	40.62	3	59.022	30	63.73	187
26.0	8.29	3	83.21	362	61.638	29	24.81	124	37.914	27	40.65	24	58.992	8	61.86	214
Okt. 6.0	8.26	6	79.59	375	61.667	71	23.57	149	37.941	68	40.89	49	59.000	52	59.72	237
16.0	8.32	14	75.84	378	61.738	114	22.08	172	38.009	113	41.38	74	59.052	98	57.35	257
25.9	8.46	24	72.06	373	61.852	159	20.36	194	38.122	160	42.12	101	59.150	148	54.78	273
Nov. 4.9	8.70	33	68.33	359	62.011	205	18.42	212	38.282	204	43.13	128	59.298	197	52.05	282
14.9	9.03	42	64.74	336	62.216	245	16.30	226	38.486	246	44.41	153	59.495	243	49.23	285
24.9	9.45	49	61.38	303	62.461	282	14.04	235	38.732	281	45.94	175	59.738	284	46.38	281
Dez. 4.8	9.94	56	58.35	260	62.743	309	11.69	236	39.013	311	47.69	193	60.022	317	43.57	267
14.8	10.50	60	55.75	211	63.052	329	9.33	232	39.324	329	49.62	204	60.339	342	40.90	246
24.8	11.10	62	53.64	152	63.381	338	7.01	218	39.653	338	51.66	211	60.681	355	38.44	216
34.7	11.72		52.12		63.719		4.83		39.991		53.77		61.036		36.28	
Mittl. Ort	8.16		98.30		59.729		37.36		35.944		27.13		57.293		73.15	
sec δ, tg δ	2.448		+2.235		1.020		+0.202		1.004		−0.089		1.136		+0.539	

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	495) γ Hydrae				496) ι Centauri				497) ζ Ursae maj. pr.				498) α Virginis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	13h 14m		−22° 43′		13h 15m		−36° 16′		13h 20m		+55° 21′		13h 20m		−10° 43′	
Jan. 0.8	21.578	363	43.80	195	52.498	402	6.49	174	33.429	485	25.38	172	46.431	345	28.13	204
10.7	21.941	356	45.75	210	52.900	393	8.23	203	33.914	488	23.66	113	46.776	339	30.17	206
20.7	22.297	337	47.85	217	53.293	373	10.26	225	34.402	474	22.53	50	47.115	324	32.23	201
30.7	22.634	312	50.02	219	53.666	345	12.51	240	34.876	444	22.03	13	47.439	301	34.24	189
Feb. 9.7	22.946	280	52.21	214	54.011	310	14.91	249	35.320	401	22.16	74	47.740	271	36.13	174
19.6	23.226	245	54.35	205	54.321	271	17.40	252	35.721	348	22.90	131	48.011	238	37.87	154
29.6	23.471	207	56.40	192	54.592	230	19.92	248	36.069	286	24.21	180	48.249	202	39.41	132
März 10.6	23.678	168	58.32	175	54.822	187	22.40	240	36.355	220	26.01	220	48.451	166	40.73	110
20.6	23.846	131	60.07	157	55.009	146	24.80	228	36.575	151	28.21	251	48.617	130	41.83	86
30.5	23.977	96	61.64	137	55.155	106	27.08	212	36.726	83	30.72	269	48.747	97	42.69	64
Apr. 9.5	24.073	64	63.01	117	55.261	70	29.20	194	36.809	19	33.41	279	48.844	66	43.33	44
19.5	24.137	33	64.18	96	55.331	34	31.14	173	36.828	41	36.20	275	48.910	37	43.77	26
29.4	24.170	6	65.14	76	55.365	2	32.87	150	36.787	96	38.95	263	48.947	11	44.03	8
Mai 9.4	24.176	19	65.90	56	55.367	27	34.37	125	36.691	144	41.58	240	48.958	13	44.11	6
19.4	24.157	41	66.46	36	55.340	54	35.62	99	36.547	185	43.98	211	48.945	33	44.05	18
29.4	24.116	61	66.82	16	55.286	80	36.61	71	36.362	218	46.09	175	48.912	53	43.87	30
Juni 8.3	24.055	80	66.98	4	55.206	101	37.32	42	36.144	245	47.84	134	48.859	69	43.57	39
18.3	23.975	95	66.94	22	55.105	120	37.74	12	35.899	264	49.18	89	48.790	85	43.18	48
28.3	23.880	107	66.72	40	54.985	135	37.86	17	35.635	276	50.07	42	48.705	96	42.70	54
Juli 8.3	23.773	116	66.32	58	54.850	146	37.69	46	35.359	281	50.49	7	48.609	105	42.16	60
18.2	23.657	120	65.74	73	54.704	151	37.23	74	35.078	280	50.42	55	48.504	110	41.56	63
28.2	23.537	120	65.01	86	54.553	150	36.49	100	34.798	270	49.87	102	48.394	111	40.93	65
Aug. 7.2	23.417	113	64.15	97	54.403	142	35.49	123	34.528	254	48.85	148	48.283	105	40.28	64
17.1	23.304	101	63.18	103	54.261	127	34.26	140	34.274	229	47.37	192	48.178	96	39.64	61
27.1	23.203	81	62.15	105	54.134	103	32.86	154	34.045	197	45.45	231	48.082	78	39.03	53
Sept. 6.1	23.122	54	61.10	102	54.031	71	31.32	160	33.848	157	43.14	268	48.004	54	38.50	44
16.1	23.068	19	60.08	94	53.960	31	29.72	160	33.691	108	40.46	299	47.950	23	38.06	28
26.0	23.049	20	59.14	80	53.929	16	28.12	152	33.583	53	37.47	326	47.927	13	37.78	11
Okt. 6.0	23.069	66	58.34	60	53.945	69	26.60	137	33.530	10	34.21	346	47.940	55	37.67	12
16.0	23.135	115	57.74	35	54.014	124	25.23	114	33.540	76	30.75	359	47.995	101	37.79	37
26.0	23.250	166	57.39	5	54.138	182	24.09	84	33.616	147	27.16	364	48.096	149	38.16	64
Nov. 4.9	23.416	215	57.34	27	54.320	238	23.25	49	33.763	218	23.52	362	48.245	195	38.80	93
14.9	23.631	260	57.61	61	54.558	289	22.76	9	33.981	286	19.90	348	48.440	239	39.73	120
24.9	23.891	299	58.22	96	54.847	332	22.67	33	34.267	348	16.42	327	48.679	277	40.93	146
Dez. 4.8	24.190	330	59.18	128	55.179	365	23.00	74	34.615	403	13.15	295	48.956	308	42.39	169
14.8	24.520	351	60.46	157	55.544	389	23.74	115	35.018	444	10.20	253	49.264	330	44.08	187
24.8	24.871	361	62.03	180	55.933	400	24.89	152	35.462	473	7.67	205	49.594	341	45.95	198
34.8	25.232		63.83		56.333		26.41		35.935		5.62		49.935		47.93	
Mittl. Ort	21.104		43.55		52.140		10.50		32.772		49.48		45.925		23.66	
sec δ, tg δ	1.084		−0.419		1.240		−0.734		1.759		+1.448		1.018		−0.189	

Mittlere Zeit Greenw.	499) Gr. 2001 AR.		499) Gr. 2001 Dekl.		500) 69 H. Urs. maj. AR.		500) 69 H. Urs. maj. Dekl.		501) ζ Virginis AR.		501) ζ Virginis Dekl.		502) 17 H. Can. ven. AR.		502) 17 H. Can. ven. Dekl.	
	$13^h\ 23^m$		$+72°\ 48'$		$13^h\ 25^m$		$+60°\ 22'$		$13^h\ 30^m$		$-0°\ 10'$		$13^h\ 31^m$		$+37°\ 36'$	
	s		″		s		″		s		″		s		″	
Jan. 0.8	59.96	81	72.46	141	22.83	54	20.82	168	25.192	337	9.01	210	3.403	382	24.41	206
10.8	60.77	83	71.05	76	23.37	54	19.14	107	25.529	334	11.11	200	3.785	383	22.35	158
20.7	61.60	82	70.29	10	23.91	53	18.07	42	25.863	321	13.11	184	4.168	372	20.77	107
30.7	62.42	77	70.19	—58	24.44	50	17.65	—22	26.184	300	14.95	161	4.540	350	19.70	51
Feb. 9.7	63.19	70	70.77	121	24.94	45	17.87	85	26.484	272	16.56	136	4.890	319	19.19	—3
19.6	63.89	61	71.98	178	25.39	39	18.72	143	26.756	241	17.92	107	5.209	280	19.22	56
29.6	64.50	49	73.76	225	25.78	33	20.15	193	26.997	206	18.99	78	5.489	237	19.78	104
März 10.6	64.99	37	76.01	265	26.11	25	22.08	234	27.203	170	19.77	50	5.726	190	20.82	146
20.6	65.36	23	78.66	291	26.36	17	24.42	265	27.373	135	20.27	23	5.916	142	22.28	179
30.5	65.59	10	81.57	306	26.53	9	27.07	283	27.508	102	20.50	—1	6.058	97	24.07	205
Apr. 9.5	65.69	—3	84.63	309	26.62	2	29.90	291	27.610	70	20.49	22	6.155	52	26.12	220
19.5	65.66	16	87.72	299	26.64	—5	32.81	287	27.680	42	20.27	38	6.207	12	28.32	227
29.5	65.50	27	90.71	280	26.59	13	35.68	274	27.722	16	19.89	52	6.219	—26	30.59	223
Mai 9.4	65.23	37	93.51	251	26.46	17	38.42	249	27.738	—8	19.37	61	6.193	58	32.82	213
19.4	64.86	46	96.02	213	26.29	23	40.91	218	27.730	31	18.76	67	6.135	88	34.95	195
29.4	64.40	53	98.15	170	26.06	27	43.09	180	27.699	50	18.09	70	6.047	112	36.90	171
Juni 8.3	63.87	58	99.85	121	25.79	30	44.89	137	27.649	67	17.39	70	5.935	133	38.61	141
18.3	63.29	62	101.06	70	25.49	32	46.26	89	27.582	82	16.69	69	5.802	150	40.02	109
28.3	62.67	64	101.76	16	25.17	33	47.15	40	27.500	95	16.00	66	5.652	162	41.11	72
Juli 8.3	62.03	65	101.92	—38	24.84	34	47.55	—10	27.405	104	15.34	61	5.490	171	41.83	34
18.2	61.38	64	101.54	91	24.50	35	47.45	60	27.301	110	14.73	53	5.319	173	42.17	—4
28.2	60.74	62	100.63	143	24.15	33	46.85	110	27.191	112	14.20	45	5.146	172	42.13	44
Aug. 7.2	60.12	58	99.20	191	23.82	31	45.75	157	27.079	109	13.75	34	4.974	165	41.69	83
17.2	59.54	52	97.29	236	23.51	28	44.18	202	26.970	100	13.41	22	4.809	151	40.86	121
27.1	59.02	46	94.93	277	23.23	25	42.16	243	26.870	84	13.19	7	4.658	131	39.65	158
Sept. 6.1	58.56	38	92.16	311	22.98	20	39.73	280	26.786	63	13.12	—10	4.527	104	38.07	193
16.1	58.18	28	89.05	342	22.78	15	36.93	311	26.723	33	13.22	29	4.423	70	36.14	225
26.0	57.90	18	85.63	363	22.63	8	33.82	338	26.690	0	13.51	51	4.353	30	33.89	253
Okt. 6.0	57.72	6	82.00	380	22.55	1	30.44	358	26.690	41	14.02	75	4.323	—18	31.36	279
16.0	57.66	—5	78.20	387	22.54	—6	26.86	370	26.731	86	14.77	100	4.341	68	28.57	299
26.0	57.71	18	74.33	386	22.60	14	23.16	374	26.817	132	15.77	125	4.409	122	25.58	314
Nov. 4.9	57.89	31	70.47	375	22.74	23	19.42	370	26.949	179	17.02	148	4.531	177	22.44	321
14.9	58.20	43	66.72	354	22.97	30	15.72	355	27.128	223	18.50	171	4.708	230	19.23	320
24.9	58.63	55	63.18	324	23.27	37	12.17	331	27.351	262	20.21	190	4.938	278	16.03	311
Dez. 4.9	59.18	64	59.94	284	23.64	43	8.86	296	27.613	294	22.11	202	5.216	319	12.92	294
14.8	59.82	73	57.10	235	24.07	49	5.90	254	27.907	317	24.13	211	5.535	352	9.98	266
24.8	60.55	79	54.75	178	24.56	52	3.36	201	28.224	331	26.24	211	5.887	372	7.32	230
34.8	61.34		52.97		25.08		1.35		28.555		28.35		6.259		5.02	
Mittl. Ort	59.44		98.84		22.25		45.74		24.698		0.72		2.849		44.58	
sec δ, tg δ	3.387		+3.236		2.023		+1.759		1.000		−0.003		1.262		+0.771	

Mittlere Zeit Greenw.	504) ε Centauri				507) τ Bootis				509) η Ursae majoris				510) 89 Virginis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	13h 34m		−53° 2′		13h 43m		+17° 51′		13h 44m		+49° 43′		13h 45m		−17° 42′	
Jan. 0.8	33.338	507	15.42	118	16.680	339	75.36	219	14.355	431	32.72	205	18.605	353	60.68	184
10.8	33.845	502	16.60	162	17.019	340	73.17	191	14.786	439	30.67	149	18.958	350	62.52	193
20.7	34.347	483	18.22	201	17.359	331	71.26	155	15.225	433	29.18	90	19.308	340	64.45	197
30.7	34.830	452	20.23	233	17.690	312	69.71	117	15.658	411	28.28	28	19.648	320	66.42	193
Feb. 9.7	35.282	413	22.56	258	18.002	287	68.54	74	16.069	379	28.00	34	19.968	293	68.35	186
19.7	35.695	367	25.14	276	18.289	255	67.80	32	16.448	337	28.34	91	20.261	263	70.21	174
29.6	36.062	318	27.90	288	18.544	220	67.48	9	16.785	287	29.25	145	20.524	229	71.95	157
März 10.6	36.380	266	30.78	294	18.764	183	67.57	47	17.072	232	30.70	189	20.753	195	73.52	139
20.6	36.646	213	33.72	292	18.947	145	68.04	80	17.304	174	32.59	225	20.948	160	74.91	121
30.5	36.859	161	36.64	286	19.092	110	68.84	107	17.478	116	34.84	251	21.108	127	76.12	101
Apr. 9.5	37.020	111	39.50	274	19.202	75	69.91	127	17.594	60	37.35	266	21.235	95	77.13	82
19.5	37.131	62	42.24	258	19.277	43	71.18	141	17.654	7	40.01	270	21.330	65	77.95	64
29.5	37.193	16	44.82	237	19.320	13	72.59	148	17.661	42	42.71	265	21.395	36	78.59	46
Mai 9.4	37.209	30	47.19	211	19.333	13	74.07	149	17.619	86	45.36	250	21.431	10	79.05	30
19.4	37.179	72	49.30	183	19.320	38	75.56	144	17.533	125	47.86	226	21.441	14	79.35	16
29.4	37.107	110	51.13	149	19.282	60	77.00	135	17.408	160	50.12	196	21.427	38	79.51	0
Juni 8.4	36.997	147	52.62	114	19.222	79	78.35	121	17.248	188	52.08	160	21.389	58	79.51	14
18.3	36.850	178	53.76	75	19.143	96	79.56	103	17.060	211	53.68	120	21.331	78	79.37	26
28.3	36.672	203	54.51	35	19.047	110	80.59	83	16.849	228	54.88	77	21.253	96	79.11	38
Juli 8.3	36.469	223	54.86	6	18.937	121	81.42	61	16.621	239	55.65	31	21.157	108	78.73	50
18.2	36.246	233	54.80	48	18.816	128	82.03	37	16.382	244	55.96	15	21.049	118	78.23	60
28.2	36.013	236	54.32	87	18.688	130	82.40	12	16.138	243	55.81	61	20.931	123	77.63	68
Aug. 7.2	35.777	228	53.45	124	18.558	128	82.52	14	15.895	234	55.20	107	20.808	121	76.95	74
17.2	35.549	209	52.21	157	18.430	120	82.38	42	15.661	219	54.13	151	20.687	115	76.21	77
27.1	35.340	178	50.64	185	18.310	105	81.96	69	15.442	195	52.62	192	20.572	99	75.44	77
Sept. 6.1	35.162	136	48.79	207	18.205	85	81.27	96	15.247	163	50.70	231	20.473	77	74.67	73
16.1	35.026	84	46.72	219	18.120	56	80.31	124	15.084	124	48.39	266	20.396	48	73.94	64
26.1	34.942	21	44.53	225	18.064	22	79.07	152	14.960	76	45.73	297	20.348	11	73.30	51
Okt. 6.0	34.921	49	42.28	218	18.042	18	77.55	177	14.884	22	42.76	321	20.337	32	72.79	33
16.0	34.970	123	40.10	204	18.060	63	75.78	202	14.862	38	39.55	341	20.369	80	72.46	11
26.0	35.093	200	38.06	180	18.123	111	73.76	224	14.900	102	36.14	352	20.449	130	72.35	15
Nov. 4.9	35.293	274	36.26	147	18.234	159	71.52	241	15.002	167	32.62	357	20.579	179	72.50	44
14.9	35.567	342	34.79	107	18.393	206	69.11	253	15.169	231	29.05	351	20.758	227	72.94	73
24.9	35.909	402	33.72	61	18.599	249	66.58	260	15.400	291	25.54	336	20.985	269	73.67	102
Dez. 4.9	36.311	450	33.11	13	18.848	285	63.98	258	15.691	344	22.18	311	21.254	305	74.69	129
14.8	36.761	482	32.98	38	19.133	312	61.40	249	16.035	386	19.07	277	21.559	330	75.98	154
24.8	37.243	502	33.36	87	19.445	331	58.91	232	16.421	416	16.30	234	21.889	346	77.52	173
34.8	37.745		34.23		19.776		56.59		16.837		13.96		22.235		79.25	
Mittl. Ort	33.344		23.34		16.224		89.80		13.965		55.63		18.268		58.15	
sec δ, tg δ	1.663		−1.329		1.051		+0.323		1.547		+1.181		1.050		−0.319	

Mittlere Zeit Greenw.	512) ζ Centauri AR.	Δ	512) ζ Centauri Dekl.	Δ	513) η Bootis AR.	Δ	513) η Bootis Dekl.	Δ	517) 11 Bootis AR.	Δ	517) 11 Bootis Dekl.	Δ	516) τ Virginis AR.	Δ	516) τ Virginis Dekl.	Δ
	$13^h\ 50^m$		$-46°\ 52'$		$13^h\ 50^m$		$+18°\ 48'$		$13^h\ 57^m$		$+27°\ 46'$		$13^h\ 57^m$		$+1°\ 56'$	
Jan. 0.8	17.484	458	25.48	115	41.515	339	51.25	223	22.349	348	73.18	228	22.568	332	52.46	210
10.8	17.942	456	26.63	153	41.854	341	49.02	194	22.697	355	70.90	189	22.900	334	50.36	198
20.8	18.398	444	28.16	186	42.195	334	47.08	158	23.052	348	69.01	145	23.234	326	48.38	179
30.7	18.842	419	30.02	215	42.529	317	45.50	118	23.400	332	67.56	98	23.560	311	46.59	156
Feb. 9.7	19.261	387	32.17	235	42.846	292	44.32	75	23.732	308	66.58	47	23.871	287	45.03	128
19.7	19.648	349	34.52	251	43.138	261	43.57	31	24.040	278	66.11	2	24.158	258	43.75	98
29.6	19.997	307	37.03	260	43.399	227	43.26	11	24.318	242	66.13	50	24.416	228	42.77	67
März 10.6	20.304	262	39.63	262	43.626	191	43.37	49	24.560	203	66.63	92	24.644	194	42.10	36
20.6	20.566	217	42.25	260	43.817	154	43.86	84	24.763	164	67.55	129	24.838	161	41.74	8
30.6	20.783	172	44.85	254	43.971	118	44.70	111	24.927	124	68.84	159	24.999	128	41.66	17
Apr. 9.5	20.955	128	47.39	242	44.089	83	45.81	132	25.051	87	70.43	180	25.127	97	41.83	39
19.5	21.083	86	49.81	227	44.172	50	47.13	147	25.138	50	72.23	192	25.224	67	42.22	56
29.5	21.169	44	52.08	209	44.222	20	48.60	154	25.188	17	74.15	198	25.291	40	42.78	68
Mai 9.4	21.213	4	54.17	186	44.242	7	50.14	155	25.205	14	76.13	195	25.331	14	43.46	78
19.4	21.217	35	56.03	161	44.235	33	51.69	150	25.191	42	78.08	186	25.345	11	44.24	83
29.4	21.182	70	57.64	132	44.202	56	53.19	140	25.149	68	79.94	170	25.334	33	45.07	83
Juni 8.4	21.112	103	58.96	101	44.146	76	54.59	126	25.081	91	81.64	149	25.301	54	45.90	83
18.3	21.009	134	59.97	68	44.070	94	55.85	107	24.990	111	83.13	125	25.247	73	46.73	78
28.3	20.875	159	60.65	33	43.976	109	56.92	87	24.879	127	84.38	96	25.174	89	47.51	72
Juli 8.3	20.716	180	60.98	2	43.867	122	57.79	64	24.752	140	85.34	66	25.085	103	48.23	65
18.3	20.536	195	60.96	39	43.745	129	58.43	39	24.612	149	86.00	34	24.982	114	48.88	55
28.2	20.341	201	60.57	74	43.616	134	58.82	12	24.463	154	86.34	0	24.868	119	49.43	44
Aug. 7.2	20.140	198	59.83	107	43.482	132	58.94	14	24.309	152	86.34	34	24.749	120	49.87	31
17.2	19.942	187	58.76	136	43.350	125	58.80	43	24.157	145	86.00	69	24.629	115	50.18	17
27.1	19.755	164	57.40	161	43.225	111	58.37	71	24.012	132	85.31	102	24.514	103	50.35	0
Sept. 6.1	19.591	130	55.79	180	43.114	91	57.66	99	23.880	110	84.29	135	24.411	85	50.35	18
16.1	19.461	86	53.99	192	43.023	64	56.67	128	23.770	82	82.94	167	24.326	58	50.17	38
26.1	19.375	34	52.07	196	42.959	30	55.39	155	23.688	47	81.27	198	24.268	25	49.79	60
Okt. 6.0	19.341	27	50.11	190	42.929	11	53.84	182	23.641	6	79.29	226	24.243	14	49.19	84
16.0	19.368	93	48.21	177	42.940	55	52.02	207	23.635	42	77.03	250	24.257	58	48.35	107
26.0	19.461	161	46.44	156	42.995	103	49.95	228	23.677	91	74.53	270	24.315	105	47.28	132
Nov. 5.0	19.622	229	44.88	125	43.098	152	47.67	247	23.768	144	71.83	286	24.420	152	45.96	155
14.9	19.851	293	43.63	89	43.250	200	45.20	258	23.912	194	68.97	293	24.572	199	44.41	177
24.9	20.144	349	42.74	48	43.450	243	42.62	264	24.106	241	66.04	294	24.771	242	42.64	193
Dez. 4.9	20.493	395	42.26	3	43.693	281	39.98	263	24.347	281	63.10	287	25.013	277	40.71	206
14.8	20.888	429	42.23	42	43.974	310	37.35	254	24.628	315	60.23	270	25.290	305	38.65	212
24.8	21.317	450	42.65	86	44.284	330	34.81	236	24.943	337	57.53	245	25.595	323	36.53	211
34.8	21.767		43.51		44.614		32.45		25.280		55.08		25.918		34.42	
Mittl. Ort	17.468		31.45		41.108		65.99		21.996		90.58		22.221		61.75	
sec δ, tg δ	1.463		−1.068		1.056		+0.341		1.130		+0.527		1.001		+0.034	

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	518) β Centauri AR.		518) β Centauri Dekl.		520) ϑ Centauri AR.		520) ϑ Centauri Dekl.		521) α Draconis AR.		521) α Draconis Dekl.		522) d Bootis AR.		522) d Bootis Dekl.	
	$13^h\ 57^m$		$-59°\ 57'$		$14^h\ 1^m$		$-35°\ 57'$		$14^h\ 2^m$		$+64°\ 45'$		$14^h\ 6^m$		$+25°\ 28'$	
Jan. 0.8	52.637 (s)	589	57.81 (″)	69	44.084 (s)	398	23.53 (″)	131	6.76 (s)	57	72.34 (″)	202	34.409 (s)	342	64.02 (″)	231
10.8	53.226	591	58.50	118	44.482	400	24.84	161	7.33	60	70.32	142	34.751	348	61.71	196
20.8	53.817	577	59.68	163	44.882	391	26.45	184	7.93	60	68.90	76	35.099	345	59.75	155
30.7	54.394	550	61.31	202	45.273	371	28.29	201	8.53	58	68.14	9	35.444	330	58.20	108
Feb. 9.7	54.944	511	63.33	235	45.644	345	30.30	212	9.11	54	68.05	56	35.774	309	57.12	60
19.7	55.455	464	65.68	261	45.989	313	32.42	219	9.65	49	68.61	120	36.083	279	56.52	11
29.6	55.919	411	68.29	282	46.302	278	34.61	219	10.14	43	69.81	176	36.362	246	56.41	36
März 10.6	56.330	354	71.11	295	46.580	241	36.80	216	10.57	35	71.57	223	36.608	210	56.77	79
20.6	56.684	293	74.06	301	46.821	202	38.96	208	10.92	26	73.80	262	36.818	171	57.56	116
30.6	56.977	233	77.07	302	47.023	165	41.04	197	11.18	17	76.42	288	36.989	134	58.72	147
Apr. 9.5	57.210	173	80.09	298	47.188	129	43.01	185	11.35	9	79.30	302	37.123	97	60.19	169
19.5	57.383	112	83.07	286	47.317	92	44.86	169	11.44	1	82.32	306	37.220	62	61.88	184
29.5	57.495	52	85.93	270	47.409	58	46.55	151	11.43	8	85.38	299	37.282	29	63.72	190
Mai 9.5	57.547	5	88.63	249	47.467	25	48.06	132	11.35	16	88.37	280	37.311	2	65.62	191
19.4	57.542	61	91.12	222	47.492	7	49.38	111	11.19	23	91.17	253	37.309	30	67.53	182
29.4	57.481	115	93.34	191	47.485	38	50.49	89	10.96	29	93.70	217	37.279	57	69.35	170
Juni 8.4	57.366	164	95.25	156	47.447	67	51.38	65	10.67	33	95.87	177	37.222	80	71.05	151
18.3	57.202	208	96.81	118	47.380	94	52.03	39	10.34	38	97.64	132	37.142	101	72.56	128
28.3	56.994	246	97.99	75	47.286	118	52.42	13	9.96	40	98.96	82	37.041	120	73.84	102
Juli 8.3	56.748	276	98.74	32	47.168	137	52.55	14	9.56	43	99.78	30	36.921	134	74.86	73
18.3	56.472	296	99.06	13	47.031	152	52.41	40	9.13	44	100.08	21	36.787	145	75.59	43
28.2	56.176	306	98.93	58	46.879	160	52.01	65	8.69	43	99.87	74	36.642	150	76.02	11
Aug. 7.2	55.870	302	98.35	101	46.719	161	51.36	89	8.26	43	99.13	124	36.492	151	76.13	22
17.2	55.568	286	97.34	141	46.558	155	50.47	110	7.83	40	97.89	172	36.341	146	75.91	55
27.2	55.282	254	95.93	177	46.403	139	49.37	126	7.43	36	96.17	218	36.195	134	75.36	89
Sept. 6.1	55.028	208	94.16	206	46.264	113	48.11	138	7.07	33	93.99	260	36.061	114	74.47	121
16.1	54.820	148	92.10	228	46.151	79	46.73	144	6.74	26	91.39	296	35.947	88	73.26	152
26.1	54.672	77	89.82	242	46.072	36	45.29	143	6.48	20	88.43	328	35.859	54	71.74	183
Okt. 6.1	54.595	5	87.40	244	46.036	14	43.86	134	6.28	12	85.15	353	35.805	13	69.91	212
16.0	54.600	94	84.96	238	46.050	71	42.52	120	6.16	3	81.62	371	35.792	33	67.79	236
26.0	54.694	186	82.58	220	46.121	129	41.32	98	6.13	5	77.91	381	35.825	82	65.43	259
Nov. 5.0	54.880	276	80.38	194	46.250	188	40.34	70	6.18	15	74.10	382	35.907	133	62.84	275
14.9	55.156	361	78.44	158	46.438	244	39.64	36	6.33	25	70.28	372	36.040	184	60.09	285
24.9	55.517	437	76.86	115	46.682	295	39.28	1	6.58	34	66.56	354	36.224	231	57.24	288
Dez. 4.9	55.954	499	75.71	67	46.977	337	39.27	37	6.92	42	63.02	324	36.455	273	54.36	283
14.9	56.453	546	75.04	17	47.314	369	39.64	74	7.34	49	59.78	284	36.728	306	51.53	270
24.8	56.999	577	74.87	36	47.683	389	40.38	110	7.83	54	56.94	235	37.034	329	48.83	247
34.8	57.576		75.23		48.072		41.48		8.37		54.59		37.363		46.36	
Mittl. Ort	53.014		66.38		43.977		26.25		6.85		97.42		34.118		80.70	
sec δ, tg δ	1.998		−1.730		1.235		−0.725		2.347		+2.123		1.108		+0.477	

Mittlere Zeit Greenw.	523) κ Virginis AR.		523) κ Virginis Dekl.		524) 4 Ursae minoris AR.		524) 4 Ursae minoris Dekl.		525) ι Virginis AR.		525) ι Virginis Dekl.		526) α Bootis AR.		526) α Bootis Dekl.	
	14h 8m		−9° 52′		14h 9m		+77° 55′		14h 11m		−5° 36′		14h 11m		+19° 36′	
Jan. 0.8	25.000 s	337	65.27″	187	8.02 s	103	66.10″	187	36.689 s	333	7.87″	195	50.039 s	330	54.32″	235
10.8	25.337	341	67.14	188	9.05	108	64.23	124	37.022	336	9.82	193	50.369	338	51.97	206
20.8	25.678	333	69.02	183	10.13	111	62.99	57	37.358	331	11.75	182	50.707	334	49.91	169
30.7	26.011	320	70.85	173	11.24	109	62.42	10	37.689	317	13.57	168	51.041	321	48.22	129
Feb. 9.7	26.331	298	72.58	157	12.33	104	62.52	78	38.006	296	15.25	148	51.362	300	46.93	85
19.7	26.629	270	74.15	137	13.37	93	63.30	140	38.302	270	16.73	124	51.662	273	46.08	39
29.7	26.899	241	75.52	116	14.30	82	64.70	195	38.572	240	17.97	99	51.935	242	45.69	4
März 10.6	27.140	209	76.68	94	15.12	66	66.65	242	38.812	209	18.96	73	52.177	207	45.73	45
20.6	27.349	177	77.62	71	15.78	49	69.07	278	39.021	177	19.69	48	52.384	172	46.18	81
30.6	27.526	145	78.33	49	16.27	30	71.85	303	39.198	145	20.17	25	52.556	137	46.99	111
Apr. 9.5	27.671	114	78.82	29	16.57	12	74.88	315	39.343	115	20.42	5	52.693	102	48.10	135
19.5	27.785	85	79.11	12	16.69	7	78.03	315	39.458	85	20.47	13	52.795	69	49.45	151
29.5	27.870	57	79.23	3	16.62	25	81.18	305	39.543	58	20.34	28	52.864	38	50.96	160
Mai 9.5	27.927	30	79.20	16	16.37	41	84.23	283	39.601	31	20.06	38	52.902	8	52.56	162
19.4	27.957	4	79.04	27	15.96	56	87.06	253	39.632	5	19.68	48	52.910	19	54.18	159
29.4	27.961	21	78.77	35	15.40	69	89.59	215	39.637	20	19.20	53	52.891	45	55.77	149
Juni 8.4	27.940	43	78.42	42	14.71	80	91.74	171	39.617	42	18.67	57	52.846	68	57.26	135
18.4	27.897	65	78.00	48	13.91	89	93.45	123	39.575	64	18.10	60	52.778	89	58.61	117
28.3	27.832	84	77.52	52	13.02	94	94.68	70	39.511	82	17.50	59	52.689	108	59.78	95
Juli 8.3	27.748	100	77.00	54	12.08	99	95.38	16	39.429	100	16.91	58	52.581	124	60.73	71
18.3	27.648	113	76.46	56	11.09	101	95.54	37	39.329	112	16.33	56	52.457	135	61.44	46
28.2	27.535	122	75.90	57	10.08	100	95.17	91	39.217	121	15.77	51	52.322	142	61.90	18
Aug. 7.2	27.413	124	75.33	54	9.08	97	94.26	142	39.096	124	15.26	46	52.180	144	62.08	10
17.2	27.289	120	74.79	51	8.11	92	92.84	191	38.972	121	14.80	38	52.036	141	61.98	39
27.2	27.169	110	74.28	45	7.19	85	90.93	236	38.851	112	14.42	28	51.895	129	61.59	69
Sept. 6.1	27.059	92	73.83	36	6.34	76	88.57	277	38.739	93	14.14	15	51.766	112	60.90	98
16.1	26.967	66	73.47	24	5.58	64	85.80	312	38.646	69	13.99	1	51.654	87	59.92	129
26.1	26.901	32	73.23	7	4.94	51	82.68	342	38.577	36	13.98	17	51.567	54	58.63	157
Okt. 6.1	26.869	7	73.16	11	4.43	36	79.26	365	38.541	3	14.15	38	51.513	15	57.06	185
16.0	26.876	53	73.27	32	4.07	19	75.61	380	38.544	48	14.53	60	51.498	30	55.21	210
26.0	26.929	101	73.59	57	3.88	2	71.81	386	38.592	95	15.13	84	51.528	77	53.11	234
Nov. 5.0	27.030	150	74.16	83	3.86	17	67.95	383	38.687	144	15.97	109	51.605	128	50.77	252
14.9	27.180	198	74.99	108	4.03	35	64.12	372	38.831	191	17.06	132	51.733	177	48.25	265
24.9	27.378	242	76.07	131	4.38	53	60.40	348	39.022	236	18.38	154	51.910	223	45.60	273
Dez. 4.9	27.620	279	77.38	153	4.91	69	56.92	316	39.258	272	19.92	172	52.133	263	42.87	272
14.9	27.899	309	78.91	169	5.60	85	53.76	273	39.530	303	21.64	185	52.396	296	40.15	265
24.8	28.208	328	80.60	181	6.45	96	51.03	221	39.833	322	23.49	193	52.692	319	37.50	247
34.8	28.536		82.41		7.41		48.82		40.155		25.42		53.011		35.03	
Mittl. Ort	24.745		59.77		9.27		92.08		36.438		0.93		49.771		69.25	
sec δ, tg δ	1.015		−0.174		4.787		+4.681		1.005		−0.098		1.062		+0.356	

Mittlere Zeit Greenw.	527) λ Bootis AR.		527) λ Bootis Dekl.		531) ϑ Bootis AR.		531) ϑ Bootis Dekl.		534) ρ Bootis AR.		534) ρ Bootis Dekl.		535) γ Bootis AR.		535) γ Bootis Dekl.	
	$14^h\ 13^m$		$+46°\ 27'$		$14^h\ 22^m$		$+52°\ 13'$		$14^h\ 28^m$		$+30°\ 43'$		$14^h\ 28^m$		$+38°\ 39'$	
Jan. 0.8	11.600	397	62.98	233	20.189	422	56.17	239	12.724	340	64.68	244	41.818	359	70.80	247
10.8	11.997	411	60.65	182	20.611	443	53.78	186	13.064	353	62.24	205	42.177	373	68.33	202
20.8	12.408	412	58.83	125	21.054	447	51.92	125	13.417	354	60.19	160	42.550	377	66.31	151
30.7	12.820	401	57.58	65	21.501	439	50.67	63	13.771	345	58.59	109	42.927	368	64.80	95
Feb. 9.7	13.221	376	56.93	2	21.940	416	50.04	2	14.116	326	57.50	57	43.295	349	63.85	37
19.7	13.597	343	56.91	57	22.356	382	50.06	65	14.442	301	56.93	4	43.644	323	63.48	21
29.7	13.940	301	57.48	113	22.738	338	50.71	123	14.743	270	56.89	48	43.967	287	63.69	76
März 10.6	14.241	255	58.61	163	23.076	287	51.94	175	15.013	234	57.37	95	44.254	249	64.45	126
20.6	14.496	204	60.24	204	23.363	231	53.69	217	15.247	196	58.32	136	44.503	207	65.71	169
30.6	14.700	153	62.28	236	23.594	174	55.86	251	15.443	157	59.68	170	44.710	163	67.40	203
Apr. 9.6	14.853	101	64.64	257	23.768	115	58.37	273	15.600	120	61.38	195	44.873	120	69.43	229
19.5	14.954	51	67.21	269	23.883	58	61.10	285	15.720	81	63.33	212	44.993	78	71.72	244
29.5	15.005	4	69.90	269	23.941	3	63.95	285	15.801	45	65.45	221	45.071	36	74.16	252
Mai 9.5	15.009	40	72.59	261	23.944	50	66.80	277	15.846	11	67.66	221	45.107	3	76.68	248
19.4	14.969	81	75.20	244	23.894	97	69.57	259	15.857	21	69.87	212	45.104	39	79.16	237
29.4	14.888	118	77.64	220	23.797	141	72.16	232	15.836	52	71.99	198	45.065	74	81.53	217
Juni 8.4	14.770	150	79.84	188	23.656	178	74.48	199	15.784	80	73.97	178	44.991	104	83.70	193
18.4	14.620	177	81.72	152	23.478	212	76.47	161	15.704	105	75.75	152	44.887	131	85.63	162
28.3	14.443	200	83.24	111	23.266	239	78.08	118	15.599	127	77.27	124	44.756	156	87.25	128
Juli 8.3	14.243	218	84.35	69	23.027	261	79.26	73	15.472	146	78.51	90	44.600	174	88.53	90
18.3	14.025	231	85.04	24	22.766	274	79.99	25	15.326	161	79.41	56	44.426	190	89.43	50
28.3	13.794	235	85.28	21	22.492	283	80.24	24	15.165	169	79.97	19	44.236	200	89.93	8
Aug. 7.2	13.559	234	85.07	67	22.209	282	80.00	71	14.996	174	80.16	17	44.036	202	90.01	33
17.2	13.325	226	84.40	112	21.927	273	79.29	119	14.822	171	79.99	55	43.834	198	89.68	75
27.2	13.099	210	83.28	155	21.654	255	78.10	165	14.651	162	79.44	92	43.636	188	88.93	117
Sept. 6.1	12.889	184	81.73	196	21.399	229	76.45	207	14.489	144	78.52	128	43.448	168	87.76	157
16.1	12.705	151	79.77	234	21.170	192	74.38	246	14.345	119	77.24	164	43.280	140	86.19	194
26.1	12.554	109	77.43	268	20.978	148	71.92	283	14.226	85	75.60	196	43.140	104	84.25	229
Okt. 6.1	12.445	59	74.75	298	20.830	93	69.09	313	14.141	45	73.64	227	43.036	61	81.96	261
16.0	12.386	3	71.77	322	20.737	32	65.96	338	14.096	1	71.37	255	42.975	11	79.35	288
26.0	12.383	57	68.55	340	20.705	34	62.58	355	14.097	53	68.82	278	42.964	44	76.47	310
Nov. 5.0	12.440	121	65.15	349	20.739	105	59.03	365	14.150	106	66.04	294	43.008	101	73.37	324
15.0	12.561	184	61.66	351	20.844	175	55.38	365	14.256	161	63.10	305	43.109	160	70.13	332
24.9	12.745	244	58.15	343	21.019	243	51.73	356	14.417	211	60.05	308	43.269	215	66.81	330
Dez. 4.9	12.989	298	54.72	325	21.262	305	48.17	337	14.628	257	56.97	301	43.484	265	63.51	320
14.9	13.287	345	51.47	297	21.567	358	44.80	306	14.885	295	53.96	286	43.749	308	60.31	298
24.8	13.632	379	48.50	259	21.925	400	41.74	266	15.180	325	51.10	261	44.057	341	57.33	268
34.8	14.011		45.91		22.325		39.08		15.505		48.49		44.398		54.65	
Mittl. Ort	11.489		84.80		20.261		78.88		12.610		82.54		41.769		90.59	
sec δ, tg δ	1.452		+1.053		1.633		+1.291		1.164		+0.595		1.281		+0.800	

Mittlere Zeit Greenw.	537) η Centauri				538) α² Centauri*)			
	AR.		Dekl.		AR.		Dekl.	
	14ʰ 30ᵐ		−41° 47′		14ʰ 33ᵐ		−60° 29′	
Jan. 0.8	9.878ˢ	419	18.90″	84	53.08ˢ	58	8.27″	27
10.8	10.297	428	19.74	117	53.66	59	8.54	74
20.8	10.725	425	20.91	147	54.25	59	9.28	119
30.8	11.150	411	22.38	171	54.84	57	10.47	160
Feb. 9.7	11.561	389	24.09	190	55.41	54	12.07	196
19.7	11.950	361	25.99	203	55.95	50	14.03	225
29.7	12.311	327	28.02	211	56.45	45	16.28	248
März 10.6	12.638	292	30.13	215	56.90	40	18.76	265
20.6	12.930	254	32.28	215	57.30	34	21.41	276
30.6	13.184	215	34.43	210	57.64	28	24.17	282
Apr. 9.6	13.399	177	36.53	202	57.92	22	26.99	282
19.5	13.576	138	38.55	193	58.14	16	29.81	277
29.5	13.714	99	40.48	179	58.30	10	32.58	265
Mai 9.5	13.813	61	42.27	163	58.40	3	35.23	249
19.5	13.874	23	43.90	144	58.43	—2	37.72	229
29.4	13.897	—15	45.34	124	58.41	8	40.01	202
Juni 8.4	13.882	51	46.58	100	58.33	14	42.03	173
18.4	13.831	85	47.58	74	58.19	19	43.76	138
28.3	13.746	116	48.32	47	58.00	24	45.14	99
Juli 8.3	13.630	143	48.79	18	57.76	28	46.13	59
18.3	13.487	165	48.97	—13	57.48	30	46.72	17
28.3	13.322	181	48.84	42	57.18	33	46.89	—28
Aug. 7.2	13.141	188	48.42	71	56.85	33	46.61	72
17.2	12.953	185	47.71	98	56.52	33	45.89	113
27.2	12.768	174	46.73	122	56.19	30	44.76	151
Sept. 6.2	12.594	151	45.51	141	55.89	26	43.25	185
16.1	12.443	116	44.10	155	55.63	20	41.40	211
26.1	12.327	74	42.55	162	55.43	14	39.29	231
Okt. 6.1	12.253	21	40.93	162	55.29	6	36.98	240
16.0	12.232	—39	39.31	154	55.23	—3	34.58	241
26.0	12.271	101	37.77	139	55.26	12	32.17	231
Nov. 5.0	12.372	167	36.38	117	55.38	22	29.86	210
15.0	12.539	230	35.21	87	55.60	31	27.76	182
24.9	12.769	288	34.34	54	55.91	39	25.94	146
Dez. 4.9	13.057	338	33.80	17	56.30	46	24.48	102
14.9	13.395	377	33.63	—21	56.76	52	23.46	55
24.9	13.772	406	33.84	59	57.28	56	22.91	7
34.8	14.178		34.43		57.84		22.84	
Mittl. Ort	9.994		22.32		53.64		15.65	
sec δ, tg δ	1.341		—0.894		2.030		—1.767	

Mittlere Zeit Greenw.	543) ζ Bootis m.				542) α Apodis			
	AR.		Dekl.		AR.		Dekl.	
	14ʰ 37ᵐ		+14° 4′		14ʰ 37ᵐ		−78° 41′	
Jan. 0.8	8.336ˢ	319	63.59″	228	18.82ˢ	131	13.04″	43
10.8	8.655	330	61.31	206	20.13	136	12.61	—14
20.8	8.985	330	59.25	176	21.49	137	12.75	70
30.8	9.315	322	57.49	140	22.86	135	13.45	123
Feb. 9.7	9.637	306	56.09	101	24.21	129	14.68	172
19.7	9.943	284	55.08	60	25.50	121	16.40	214
29.7	10.227	256	54.48	19	26.71	112	18.54	253
März 10.6	10.483	227	54.29	—21	27.83	99	21.07	283
20.6	10.710	196	54.50	58	28.82	85	23.90	306
30.6	10.906	163	55.08	88	29.67	71	26.96	325
Apr. 9.6	11.069	131	55.96	113	30.38	56	30.21	334
19.5	11.200	99	57.09	132	30.94	40	33.55	339
29.5	11.299	69	58.41	145	31.34	22	36.94	334
Mai 9.5	11.368	40	59.86	151	31.56	6	40.28	323
19.5	11.408	11	61.37	151	31.62	—10	43.51	305
29.4	11.419	—16	62.88	146	31.52	27	46.56	280
Juni 8.4	11.403	42	64.34	137	31.25	42	49.36	249
18.4	11.361	66	65.71	124	30.83	56	51.85	211
28.3	11.295	89	66.95	107	30.27	68	53.96	168
Juli 8.3	11.206	108	68.02	87	29.59	79	55.64	121
18.3	11.098	124	68.89	66	28.80	86	56.85	69
28.3	10.974	136	69.55	43	27.94	91	57.54	15
Aug. 7.2	10.838	142	69.98	19	27.03	93	57.69	—40
17.2	10.696	143	70.17	—6	26.10	90	57.29	94
27.2	10.553	135	70.11	33	25.20	84	56.35	144
Sept. 6.2	10.418	122	69.78	60	24.36	74	54.91	192
16.1	10.296	100	69.18	88	23.62	62	52.99	231
26.1	10.196	70	68.30	114	23.00	44	50.68	264
Okt. 6.1	10.126	33	67.16	142	22.56	25	48.04	285
16.0	10.093	—9	65.74	169	22.31	5	45.19	297
26.0	10.102	57	64.05	192	22.26	—18	42.22	296
Nov. 5.0	10.159	106	62.13	214	22.44	41	39.26	284
15.0	10.265	156	59.99	232	22.85	62	36.42	260
24.9	10.421	202	57.67	243	23.47	83	33.82	226
Dez. 4.9	10.623	245	55.24	249	24.30	101	31.56	183
14.9	10.868	279	52.75	246	25.31	114	29.73	134
24.9	11.147	305	50.29	236	26.45	126	28.39	80
34.8	11.452		47.93		27.71		27.59	
Mittl. Ort	8.214		76.73		21.78		22.49	
sec δ, tg δ	1.031		+0.251		5.099		—5.000	

*) Ort des hellen Sterns; die jährliche Parallaxe (siehe Erläuterungen) ist bereits berücksichtigt.

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	545) μ Virginis AR.		545) μ Virginis Dekl.		547) 109 Virginis AR.		547) 109 Virginis Dekl.		548) α Librae AR.		548) α Librae Dekl.		549) Gr. 2164 AR.		549) Gr. 2164 Dekl.	
	14h 38m		−5° 17′		14h 42m		+2° 14′		14h 46m		−15° 41′		14h 49m		+59° 37′	
Jan. 0.8	37.988	324	44.60	188	0.152	317	36.49	205	13.744	333	40.56	154	17.733	455	42.75	257
10.8	38.312	333	46.48	185	0.469	327	34.44	193	14.077	343	42.10	162	18.188	491	40.18	202
20.8	38.645	331	48.33	175	0.796	328	32.51	177	14.420	343	43.72	164	18.679	509	38.16	142
30.8	38.976	323	50.08	160	1.124	319	30.74	153	14.763	334	45.36	161	19.188	511	36.74	76
Feb. 9.7	39.299	306	51.68	141	1.443	304	29.21	126	15.097	320	46.97	152	19.699	495	35.98	9
19.7	39.605	284	53.09	117	1.747	282	27.95	95	15.417	298	48.49	140	20.194	466	35.89	57
29.7	39.889	259	54.26	91	2.029	257	27.00	63	15.715	272	49.89	124	20.660	422	36.46	119
März 10.6	40.148	230	55.17	66	2.286	230	26.37	31	15.987	245	51.13	107	21.082	368	37.65	176
20.6	40.378	201	55.83	40	2.516	200	26.06	1	16.232	217	52.20	88	21.450	306	39.41	224
30.6	40.579	171	56.23	17	2.716	169	26.05	25	16.449	186	53.08	71	21.756	239	41.65	261
Apr. 9.6	40.750	141	56.40	4	2.885	140	26.30	49	16.635	157	53.79	54	21.995	168	44.26	288
19.5	40.891	113	56.36	21	3.025	111	26.79	67	16.792	127	54.33	38	22.163	98	47.14	305
29.5	41.004	83	56.15	35	3.136	82	27.46	81	16.919	98	54.71	24	22.261	27	50.19	309
Mai 9.5	41.087	56	55.80	47	3.218	53	28.27	91	17.017	68	54.95	11	22.288	41	53.28	303
19.5	41.143	28	55.33	55	3.271	26	29.18	95	17.085	40	55.06	1	22.247	104	56.31	287
29.4	41.171	2	54.78	59	3.297	1	30.13	98	17.125	11	55.07	9	22.143	163	59.18	262
Juni 8.4	41.173	25	54.19	63	3.296	27	31.11	95	17.136	17	54.98	18	21.980	216	61.80	230
18.4	41.148	49	53.56	63	3.269	52	32.06	90	17.119	44	54.80	25	21.764	263	64.10	191
28.3	41.099	73	52.93	62	3.217	75	32.96	83	17.075	70	54.55	32	21.501	303	66.01	148
Juli 8.3	41.026	92	52.31	60	3.142	95	33.79	74	17.005	92	54.23	39	21.198	335	67.49	101
18.3	40.934	111	51.71	56	3.047	113	34.53	63	16.913	112	53.84	44	20.863	358	68.50	51
28.3	40.823	123	51.15	51	2.934	125	35.16	51	16.801	127	53.40	50	20.505	374	69.01	1
Aug. 7.2	40.700	130	50.64	45	2.809	133	35.67	37	16.674	137	52.90	53	20.131	379	69.02	51
17.2	40.570	132	50.19	37	2.676	135	36.04	22	16.537	138	52.37	55	19.752	374	68.51	101
27.2	40.438	126	49.82	27	2.541	130	36.26	5	16.399	134	51.82	55	19.378	359	67.50	150
Sept. 6.2	40.312	112	49.55	15	2.411	116	36.31	13	16.265	119	51.27	53	19.019	332	66.00	196
16.1	40.200	89	49.40	0	2.295	95	36.18	32	16.146	98	50.74	47	18.687	293	64.04	240
26.1	40.111	60	49.40	16	2.200	66	35.86	54	16.048	66	50.27	37	18.394	244	61.64	278
Okt. 6.1	40.051	23	49.56	36	2.134	29	35.32	77	15.982	28	49.90	24	18.150	183	58.86	312
16.0	40.028	21	49.92	57	2.105	13	34.55	100	15.954	16	49.66	6	17.967	114	55.74	341
26.0	40.049	68	50.49	80	2.118	60	33.55	124	15.970	67	49.60	13	17.853	37	52.33	361
Nov. 5.0	40.117	118	51.29	103	2.178	108	32.31	146	16.037	118	49.73	36	17.816	46	48.72	373
15.0	40.235	167	52.32	126	2.286	158	30.85	168	16.155	168	50.09	60	17.862	131	44.99	377
24.9	40.402	212	53.58	146	2.444	203	29.17	184	16.323	217	50.69	85	17.993	214	41.22	370
Dez. 4.9	40.614	253	55.04	164	2.647	245	27.33	198	16.540	259	51.54	108	18.207	293	37.52	351
14.9	40.867	287	56.68	177	2.892	278	25.35	205	16.799	294	52.62	127	18.500	364	34.01	323
24.9	41.154	311	58.45	184	3.170	304	23.30	206	17.093	320	53.89	144	18.864	423	30.78	284
34.8	41.465		60.29		3.474		21.24		17.413		55.33		19.287		27.94	
Mittl. Ort	37.873		37.33		0.045		46.08		13.696		36.34		18.356		65.70	
sec δ, tg δ	1.004		−0.093		1.001		+0.039		1.039		−0.281		1.978		+1.707	

Mittlere Zeit Greenw.	550) β Ursae minoris AR.		Dekl.		551) P. XIV. 221 AR.		Dekl.		552) β Lupi AR.		Dekl.		555) β Bootis AR.		Dekl.	
	14h 50m		+74° 29′		14h 52m		+14° 46′		14h 53m		−42° 47′		14h 58m		+40° 42′	
	s		″		s		″		s		″		s		″	
Jan. 0.8	54.22	75	31.44	241	15.333	312	52.93	232	1.105	416	44.32	56	46.686	344	57.11	267
10.8	54.97	81	29.03	182	15.645	325	50.61	208	1.521	430	44.88	89	47.030	367	54.44	224
20.8	55.78	87	27.21	119	15.970	329	48.53	179	1.951	432	45.77	118	47.397	377	52.20	173
30.8	56.65	88	26.02	52	16.299	324	46.74	144	2.383	424	46.95	145	47.774	376	50.47	117
Feb. 9.7	57.53	86	25.50	18	16.623	310	45.30	103	2.807	407	48.40	165	48.150	365	49.30	57
19.7	58.39	81	25.68	83	16.933	290	44.27	61	3.214	382	50.05	181	48.515	344	48.73	3
29.7	59.20	73	26.51	146	17.223	266	43.66	19	3.596	353	51.86	192	48.859	315	48.76	61
März 10.7	59.93	64	27.97	201	17.489	238	43.47	21	3.949	320	53.78	198	49.174	281	49.37	115
20.6	60.57	52	29.98	247	17.727	208	43.68	60	4.269	285	55.76	202	49.455	241	50.52	163
30.6	61.09	39	32.45	283	17.935	177	44.28	91	4.554	248	57.78	200	49.696	200	52.15	202
Apr. 9.6	61.48	25	35.28	306	18.112	145	45.19	119	4.802	210	59.78	196	49.896	156	54.17	234
19.5	61.73	10	38.34	319	18.257	114	46.38	138	5.012	171	61.74	189	50.052	113	56.51	254
29.5	61.83	3	41.53	320	18.371	83	47.76	152	5.183	131	63.63	179	50.165	70	59.05	265
Mai 9.5	61.80	17	44.73	309	18.454	53	49.28	160	5.314	92	65.42	167	50.235	27	61.70	266
19.5	61.63	30	47.82	289	18.507	23	50.88	160	5.406	51	67.09	152	50.262	13	64.36	259
29.4	61.33	42	50.71	260	18.530	5	52.48	156	5.457	11	68.61	134	50.249	52	66.95	243
Juni 8.4	60.91	52	53.31	224	18.525	33	54.04	146	5.468	29	69.95	113	50.197	88	69.38	220
18.4	60.39	61	55.55	181	18.492	59	55.50	133	5.439	67	71.08	90	50.109	121	71.58	191
28.4	59.78	68	57.36	134	18.433	83	56.83	115	5.372	102	71.98	64	49.988	152	73.49	158
Juli 8.3	59.10	74	58.70	84	18.350	106	57.98	96	5.270	135	72.62	36	49.836	176	75.07	120
18.3	58.36	77	59.54	31	18.244	123	58.94	74	5.135	162	72.98	7	49.660	198	76.27	79
28.3	57.59	80	59.85	22	18.121	138	59.68	50	4.973	182	73.05	22	49.462	214	77.06	36
Aug. 7.2	56.79	80	59.63	75	17.983	147	60.18	25	4.791	195	72.83	52	49.248	222	77.42	7
17.2	55.99	78	58.88	127	17.836	149	60.43	1	4.596	198	72.31	80	49.026	224	77.35	51
27.2	55.21	75	57.61	176	17.687	145	60.42	28	4.398	190	71.51	107	48.802	218	76.84	94
Sept. 6.2	54.46	70	55.85	222	17.542	133	60.14	56	4.208	172	70.44	128	48.584	202	75.90	138
16.1	53.76	62	53.63	264	17.409	112	59.58	85	4.036	141	69.16	146	48.382	179	74.52	178
26.1	53.14	53	50.99	302	17.297	85	58.73	112	3.895	101	67.70	157	48.203	145	72.74	216
Okt. 6.1	52.61	42	47.97	332	17.212	48	57.61	141	3.794	49	66.13	161	48.058	104	70.58	252
16.1	52.19	30	44.65	358	17.164	7	56.20	167	3.745	9	64.52	158	47.954	54	68.06	282
26.0	51.89	16	41.07	375	17.157	40	54.53	192	3.754	73	62.94	148	47.900	0	65.24	308
Nov. 5.0	51.73	2	37.32	383	17.197	90	52.61	215	3.827	140	61.46	130	47.900	60	62.16	326
15.0	51.71	13	33.49	381	17.287	140	50.46	232	3.967	205	60.16	105	47.960	119	58.90	337
24.9	51.84	29	29.68	370	17.427	188	48.14	244	4.172	267	59.11	75	48.079	179	55.53	340
Dez. 4.9	52.13	43	25.98	347	17.615	231	45.70	251	4.439	320	58.36	42	48.258	235	52.13	333
14.9	52.56	57	22.51	313	17.846	269	43.19	249	4.759	366	57.94	5	48.493	282	48.80	314
24.9	53.13	68	19.38	271	18.115	296	40.70	239	5.125	398	57.89	31	48.775	323	45.66	287
34.8	53.81		16.67		18.411		38.31		5.523		58.20		49.098		42.79	
Mittl. Ort	56.17		55.70		15.299		66.12		1.349		47.20		46.913		76.51	
sec δ, tg δ	3.742		+3.606		1.034		+0.264		1.363		−0.926		1.320		+0.861	

Mittlere Zeit Greenw.	556) γ Scorpii				557) ψ Bootis				558) ζ Lupi				560) γ Triang. austr.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	14h 59m		−24° 57′		15h 0m		+27° 15′		15h 6m		−51° 46′		15h 11m		−68° 22′	
Jan. 0.8	8.912	347	11.43	114	50.677	316	71.95	255	13.947	470	45.11	7	1.49	72	6.66	59
10.8	9.259	359	12.57	132	50.993	334	69.40	222	14.417	491	45.18	47	2.21	76	6.07	10
20.8	9.618	362	13.89	143	51.327	341	67.18	181	14.908	497	45.65	84	2.97	78	5.97	39
30.8	9.980	355	15.32	150	51.668	339	65.37	135	15.405	493	46.49	118	3.75	77	6.36	86
Feb. 9.7	10.335	341	16.82	153	52.007	328	64.02	84	15.898	477	47.67	148	4.52	76	7.22	130
19.7	10.676	322	18.35	150	52.335	308	63.18	32	16.375	453	49.15	173	5.28	72	8.52	169
29.7	10.998	297	19.85	144	52.643	284	62.86	19	16.828	422	50.88	192	6.00	68	10.21	202
März 10.7	11.295	270	21.29	135	52.927	255	63.05	68	17.250	387	52.80	209	6.68	63	12.23	232
20.6	11.565	241	22.64	125	53.182	222	63.73	112	17.637	348	54.89	219	7.31	56	14.55	255
30.6	11.806	212	23.89	113	53.404	187	64.85	149	17.985	305	57.08	227	7.87	49	17.10	272
Apr. 9.6	12.018	181	25.02	100	53.591	153	66.34	179	18.290	261	59.35	228	8.36	41	19.82	284
19.6	12.199	150	26.02	88	53.744	118	68.13	201	18.551	216	61.63	227	8.77	34	22.66	291
29.5	12.349	119	26.90	76	53.862	83	70.14	214	18.767	168	63.90	221	9.11	25	25.57	291
Mai 9.5	12.468	87	27.66	64	53.945	48	72.28	219	18.935	118	66.11	212	9.36	16	28.48	285
19.5	12.555	56	28.30	52	53.993	15	74.47	216	19.053	69	68.23	199	9.52	8	31.33	273
29.4	12.611	24	28.82	40	54.008	18	76.63	207	19.122	19	70.22	181	9.60	1	34.06	256
Juni 8.4	12.635	8	29.22	27	53.990	49	78.70	191	19.141	30	72.03	159	9.59	10	36.62	231
18.4	12.627	38	29.49	15	53.941	77	80.61	169	19.111	79	73.62	134	9.49	19	38.93	203
28.4	12.589	68	29.64	2	53.864	105	82.30	145	19.032	125	74.96	105	9.30	26	40.96	167
Juli 8.3	12.521	95	29.66	12	53.759	128	83.75	115	18.907	164	76.01	73	9.04	33	42.63	127
18.3	12.426	118	29.54	26	53.631	149	84.90	83	18.743	200	76.74	39	8.71	39	43.90	84
28.3	12.308	136	29.28	39	53.482	164	85.73	49	18.543	227	77.13	3	8.32	43	44.74	38
Aug. 7.3	12.172	148	28.89	51	53.318	173	86.22	15	18.316	243	77.16	34	7.89	45	45.12	11
17.2	12.024	152	28.38	62	53.145	177	86.37	22	18.073	250	76.82	71	7.44	47	45.01	60
27.2	11.872	149	27.76	72	52.968	172	86.15	58	17.823	243	76.11	104	6.97	45	44.41	107
Sept. 6.2	11.723	136	27.04	78	52.796	161	85.57	94	17.580	223	75.07	136	6.52	41	43.34	151
16.1	11.587	113	26.26	81	52.635	140	84.63	129	17.357	189	73.71	162	6.11	36	41.83	190
26.1	11.474	82	25.45	80	52.495	112	83.34	164	17.168	143	72.09	181	5.75	28	39.93	222
Okt. 6.1	11.392	41	24.65	73	52.383	75	81.70	196	17.025	85	70.28	195	5.47	19	37.71	247
16.1	11.351	5	23.92	61	52.308	30	79.74	226	16.940	17	68.33	199	5.28	7	35.24	261
26.0	11.356	58	23.31	46	52.278	18	77.48	252	16.923	58	66.34	195	5.21	4	32.63	265
Nov. 5.0	11.414	112	22.85	25	52.296	70	74.96	273	16.981	135	64.39	182	5.25	17	29.98	258
15.0	11.526	167	22.60	2	52.366	124	72.23	289	17.116	213	62.57	160	5.42	30	27.40	242
25.0	11.693	219	22.58	24	52.490	175	69.34	296	17.329	285	60.97	133	5.72	41	24.98	215
Dez. 4.9	11.912	264	22.82	51	52.665	224	66.38	297	17.614	351	59.64	98	6.13	52	22.83	179
14.9	12.176	303	23.33	76	52.889	265	63.41	287	17.965	405	58.66	61	6.65	61	21.04	139
24.9	12.479	331	24.09	100	53.154	298	60.54	269	18.370	448	58.05	21	7.26	68	19.65	92
34.8	12.810		25.09		53.452		57.85		18.818		57.84		7.94		18.73	
Mittl. Ort	8.974		9.59		50.764		88.26		14.456		49.39		2.93		13.36	
sec δ, tg δ	1.103		−0.465		1.125		+0.516		1.616		−1.270		2.713		−2.522	

Mittlere Zeit Greenw.	563) δ Bootis AR.		Dekl.		564) β Librae AR.		Dekl.		565) 1 H. Ursae min. AR.		Dekl.		566) φ¹ Lupi AR.		Dekl.	
	15ʰ 12ᵐ		+33° 37′		15ʰ 12ᵐ		−9° 4′		15ʰ 13ᵐ		+67° 39′		15ʰ 16ᵐ		−35° 57′	
Jan. 0.9	6.745 ˢ	319	21.74 ″	268	29.023 ˢ	312	31.96 ″	162	38.61 ˢ	53	33.17 ″	273	27.991 ˢ	372	26.54 ″	58
10.8	7.064	341	19.06	231	29.335	327	33.58	164	39.14	58	30.44	220	28.363	390	27.12	84
20.8	7.405	352	16.75	187	29.662	332	35.22	159	39.72	63	28.24	159	28.753	397	27.96	107
30.8	7.757	352	14.88	135	29.994	328	36.81	149	40.35	63	26.65	94	29.150	393	29.03	125
Feb. 9.8	8.109	344	13.53	81	30.322	318	38.30	134	40.98	64	25.71	25	29.543	382	30.28	140
19.7	8.453	327	12.72	24	30.640	301	39.64	115	41.62	61	25.46	44	29.925	364	31.68	150
29.7	8.780	303	12.48	32	30.941	280	40.79	93	42.23	57	25.90	108	30.289	341	33.18	155
März 10.7	9.083	274	12.80	84	31.221	257	41.72	71	42.80	51	26.98	167	30.630	314	34.73	158
20.6	9.357	240	13.64	132	31.478	231	42.43	48	43.31	43	28.65	220	30.944	284	36.31	157
30.6	9.597	205	14.96	172	31.709	203	42.91	27	43.74	34	30.85	261	31.228	253	37.88	154
Apr. 9.6	9.802	167	16.68	205	31.912	176	43.18	7	44.08	25	33.46	292	31.481	221	39.42	149
19.6	9.969	129	18.73	227	32.088	148	43.25	9	44.33	16	36.38	312	31.702	187	40.91	143
29.5	10.098	91	21.00	242	32.236	119	43.16	23	44.49	6	39.50	320	31.889	152	42.34	134
Mai 9.5	10.189	53	23.42	248	32.355	90	42.93	34	44.55	3	42.70	317	32.041	115	43.68	124
19.5	10.242	16	25.90	243	32.445	60	42.59	42	44.52	13	45.87	305	32.156	79	44.92	113
29.5	10.258	20	28.33	233	32.505	31	42.17	47	44.39	21	48.92	282	32.235	41	46.05	100
Juni 8.4	10.238	54	30.66	215	32.536	2	41.70	52	44.18	29	51.74	251	32.276	4	47.05	85
18.4	10.184	87	32.81	191	32.538	27	41.18	53	43.89	36	54.25	214	32.280	34	47.90	69
28.4	10.097	117	34.72	162	32.511	56	40.65	54	43.53	42	56.39	171	32.246	70	48.59	49
Juli 8.3	9.980	143	36.34	130	32.455	81	40.11	53	43.11	47	58.10	123	32.176	103	49.08	29
18.3	9.837	166	37.64	93	32.374	104	39.58	52	42.64	51	59.33	74	32.073	131	49.37	8
28.3	9.671	183	38.57	55	32.270	122	39.06	50	42.13	54	60.07	21	31.942	156	49.45	15
Aug. 7.3	9.488	195	39.12	16	32.148	135	38.56	46	41.59	54	60.28	31	31.786	171	49.30	37
17.2	9.293	199	39.28	24	32.013	143	38.10	42	41.05	55	59.97	83	31.615	180	48.93	59
27.2	9.094	197	39.04	65	31.870	141	37.68	35	40.50	54	59.14	135	31.435	179	48.34	80
Sept. 6.2	8.897	186	38.39	105	31.729	132	37.33	28	39.96	50	57.79	183	31.256	166	47.54	98
16.1	8.711	165	37.34	144	31.597	114	37.05	17	39.46	46	55.96	228	31.090	143	46.56	111
26.1	8.546	137	35.90	182	31.483	87	36.88	5	39.00	40	53.68	270	30.947	110	45.45	120
Okt. 6.1	8.409	99	34.08	216	31.396	52	36.83	11	38.60	33	50.98	307	30.837	67	44.25	123
16.1	8.310	54	31.92	248	31.344	11	36.94	28	38.27	25	47.91	338	30.770	16	43.02	121
26.0	8.256	4	29.44	275	31.333	37	37.22	49	38.02	14	44.53	361	30.754	42	41.81	111
Nov. 5.0	8.252	51	26.69	297	31.370	86	37.71	70	37.88	4	40.92	376	30.796	103	40.70	96
15.0	8.303	107	23.72	313	31.456	138	38.41	92	37.84	6	37.16	383	30.899	164	39.74	75
25.0	8.410	163	20.59	319	31.594	185	39.33	112	37.90	18	33.33	378	31.063	222	38.99	51
Dez. 4.9	8.573	214	17.40	317	31.779	230	40.45	131	38.08	29	29.55	363	31.285	275	38.48	22
14.9	8.787	260	14.23	305	32.009	267	41.76	147	38.37	39	25.92	336	31.560	318	38.26	9
24.9	9.047	298	11.18	284	32.276	296	43.23	156	38.76	47	22.56	299	31.878	354	38.35	37
34.9	9.345		8.34		32.572		44.79		39.23		19.57		32.232		38.72	
Mittl. Ort	6.974		39.20		29.070		25.54		40.14		55.81		28.231		27.03	
sec δ, tg δ	1.201		+0.665		1.013		−0.160		2.631		+2.434		1.235		−0.725	

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Mittlere Zeit Greenw.	569) γ Ursae minoris				568) μ Bootis				571) ι Draconis				572) β Coron. bor.			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
	15h 20m		+72° 7′		15h 21m		+37° 39′		15h 23m		+59° 15′		15h 24m		+29° 23′	
Jan. 0.9	48.83s	60	35.85″	273	18.653s	319	58.16″	276	2.504s	411	14.58″	286	21.676s	304	24.37″	267
10.8	49.43	68	33.12	220	18.972	345	55.40	238	2.915	456	11.72	237	21.980	326	21.70	233
20.8	50.11	74	30.92	160	19.317	359	53.02	191	3.371	486	9.35	179	22.306	338	19.37	193
30.8	50.85	77	29.32	94	19.676	362	51.11	138	3.857	500	7.56	116	22.644	340	17.44	146
Feb. 9.8	51.62	76	28.38	26	20.038	356	49.73	81	4.357	496	6.40	49	22.984	335	15.98	94
19.7	52.38	74	28.12	—43	20.394	342	48.92	21	4.853	480	5.91	—20	23.319	320	15.04	40
29.7	53.12	69	28.55	108	20.736	318	48.71	—37	5.333	447	6.11	83	23.639	299	14.64	—14
März 10.7	53.81	62	29.63	168	21.054	289	49.08	92	5.780	404	6.94	144	23.938	273	14.78	65
20.6	54.43	53	31.31	220	21.343	255	50.00	142	6.184	351	8.38	198	24.211	244	15.43	113
30.6	54.96	43	33.51	263	21.598	218	51.42	185	6.535	290	10.36	243	24.455	211	16.56	153
Apr. 9.6	55.39	31	36.14	294	21.816	179	53.27	218	6.825	226	12.79	277	24.666	177	18.09	186
19.6	55.70	19	39.08	315	21.995	139	55.45	244	7.051	157	15.56	301	24.843	142	19.95	211
29.5	55.89	7	42.23	324	22.134	99	57.89	259	7.208	88	18.57	313	24.985	106	22.06	227
Mai 9.5	55.96	—5	45.47	322	22.233	57	60.48	265	7.296	20	21.70	315	25.091	70	24.33	235
19.5	55.91	16	48.69	308	22.290	18	63.13	261	7.316	—48	24.85	306	25.161	35	26.68	235
29.5	55.75	28	51.77	287	22.308	—21	65.74	250	7.268	110	27.91	288	25.196	0	29.03	227
Juni 8.4	55.47	38	54.64	257	22.287	58	68.24	231	7.158	170	30.79	261	25.196	35	31.30	212
18.4	55.09	46	57.21	219	22.229	94	70.55	207	6.988	224	33.40	228	25.161	67	33.42	191
28.4	54.63	54	59.40	176	22.135	127	72.62	176	6.764	273	35.68	188	25.094	98	35.33	166
Juli 8.3	54.09	61	61.16	129	22.008	155	74.38	141	6.491	313	37.56	144	24.996	125	36.99	136
18.3	53.48	65	62.45	79	21.853	180	75.79	103	6.178	347	39.00	97	24.871	150	38.35	104
28.3	52.83	69	63.24	27	21.673	200	76.82	63	5.831	372	39.97	47	24.721	169	39.39	68
Aug. 7.3	52.14	71	63.51	—26	21.473	213	77.45	21	5.459	387	40.44	—4	24.552	183	40.07	32
17.2	51.43	71	63.25	79	21.260	219	77.66	—22	5.072	391	40.40	55	24.369	190	40.39	—6
27.2	50.72	69	62.46	129	21.041	217	77.44	65	4.681	386	39.85	106	24.179	190	40.33	44
Sept. 6.2	50.03	66	61.17	179	20.824	207	76.79	107	4.295	367	38.79	155	23.989	181	39.89	83
16.2	49.37	60	59.38	225	20.617	187	75.72	149	3.928	337	37.24	201	23.808	164	39.06	120
26.1	48.77	53	57.13	266	20.430	159	74.23	188	3.591	295	35.23	245	23.644	137	37.86	157
Okt. 6.1	48.24	45	54.47	304	20.271	121	72.35	225	3.296	241	32.78	283	23.507	102	36.29	191
16.1	47.79	35	51.43	335	20.150	75	70.10	258	3.055	176	29.95	317	23.405	61	34.38	224
26.0	47.44	23	48.08	358	20.075	23	67.52	286	2.879	103	26.78	344	23.344	11	32.14	251
Nov. 5.0	47.21	10	44.50	374	20.052	—33	64.66	309	2.776	21	23.34	363	23.333	—41	29.63	275
15.0	47.11	—3	40.76	380	20.085	93	61.57	324	2.755	—63	19.71	374	23.374	95	26.88	293
25.0	47.14	17	36.96	377	20.178	150	58.33	331	2.818	147	15.97	374	23.469	149	23.95	302
Dez. 4.9	47.31	30	33.19	361	20.328	205	55.02	328	2.965	231	12.23	364	23.618	200	20.93	304
14.9	47.61	43	29.58	336	20.533	254	51.74	316	3.196	307	8.59	342	23.818	245	17.89	297
24.9	48.04	53	26.22	299	20.787	296	48.58	294	3.503	373	5.17	309	24.063	282	14.92	279
34.9	48.57		23.23		21.083		45.64		3.876		2.08		24.345		12.13	
Mittl. Ort	51.08		58.41		19.006		76.13		3.546		35.87		21.935		40.51	
sec δ, tg δ	3.259		+3.102		1.263		+0.772		1.956		+1.681		1.148		+0.563	

Mittlere Zeit Greenw.	573) ν¹ Bootis				575) γ Lupi				577) γ Librae				578) α Coron. bor.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$15^h 27^m$		+41° 6′		$15^h 29^m$		−40° 53′		$15^h 30^m$		−14° 30′		$15^h 31^m$		+26° 59′	
Jan. 0.9	54.238	322	49.37	284	31.834	386	6.03	24	49.345	310	41.74	133	7.584	296	32.64	264
10.8	54.560	350	46.53	244	32.220	408	6.27	54	49.655	328	43.07	140	7.880	320	30.00	234
20.8	54.910	368	44.09	195	32.628	417	6.81	81	49.983	336	44.47	140	8.200	332	27.66	196
30.8	55.278	374	42.14	140	33.045	418	7.62	104	50.319	335	45.87	137	8.532	336	25.70	150
Feb. 9.8	55.652	369	40.74	82	33.463	408	8.66	124	50.654	328	47.24	128	8.868	331	24.20	101
19.7	56.021	356	39.92	20	33.871	393	9.90	139	50.982	314	48.52	114	9.199	317	23.19	49
29.7	56.377	333	39.72	— 41	34.264	371	11.29	151	51.296	295	49.66	99	9.516	299	22.70	— 3
März 10.7	56.710	304	40.13	97	34.635	345	12.80	158	51.591	275	50.65	82	9.815	274	22.73	54
20.7	57.014	270	41.10	149	34.980	315	14.38	163	51.866	250	51.47	64	10.089	246	23.27	101
30.6	57.284	231	42.59	193	35.295	283	16.01	165	52.116	225	52.11	47	10.335	216	24.28	142
Apr. 9.6	57.515	190	44.52	229	35.578	250	17.66	164	52.341	199	52.58	30	10.551	183	25.70	175
19.6	57.705	148	46.81	255	35.828	215	19.30	161	52.540	170	52.88	16	10.734	150	27.45	200
29.5	57.853	105	49.36	271	36.043	177	20.91	156	52.710	142	53.04	3	10.884	115	29.45	218
Mai 9.5	57.958	62	52.07	277	36.220	138	22.47	148	52.852	113	53.07	— 6	10.999	80	31.63	227
19.5	58.020	18	54.84	274	36.358	98	23.95	139	52.965	82	53.01	15	11.079	45	33.90	228
29.5	58.038	— 23	57.58	263	36.456	56	25.34	127	53.047	50	52.86	21	11.124	11	36.18	221
Juni 8.4	58.015	63	60.21	243	36.512	14	26.61	112	53.097	19	52.65	27	11.135	— 23	38.39	208
18.4	57.952	101	62.64	217	36.526	— 27	27.73	95	53.116	— 13	52.38	31	11.112	57	40.47	189
28.4	57.851	136	64.81	186	36.499	68	28.68	75	53.103	44	52.07	34	11.055	87	42.36	166
Juli 8.4	57.715	167	66.67	150	36.431	106	29.43	53	53.059	72	51.73	36	10.968	115	44.02	138
18.3	57.548	194	68.17	110	36.325	139	29.96	28	52.987	99	51.37	40	10.853	140	45.40	107
28.3	57.354	215	69.27	68	36.186	166	30.24	3	52.888	121	50.97	41	10.713	161	46.47	74
Aug. 7.3	57.139	230	69.95	24	36.020	187	30.27	— 24	52.767	137	50.56	43	10.552	176	47.21	39
17.2	56.909	237	70.19	— 21	35.833	197	30.03	50	52.630	148	50.13	44	10.376	185	47.60	2
27.2	56.672	237	69.98	65	35.636	199	29.53	75	52.482	149	49.69	43	10.191	185	47.62	— 34
Sept. 6.2	56.435	226	69.33	110	35.437	188	28.78	99	52.333	142	49.26	40	10.006	178	47.28	72
16.2	56.209	207	68.23	153	35.249	166	27.79	117	52.191	127	48.86	36	9.828	162	46.56	108
26.1	56.002	177	66.70	194	35.083	132	26.62	132	52.064	101	48.50	28	9.666	136	45.48	143
Okt. 6.1	55.825	140	64.76	232	34.951	87	25.30	142	51.963	67	48.22	18	9.530	104	44.05	178
16.1	55.685	92	62.44	266	34.864	34	23.88	143	51.896	26	48.04	3	9.426	62	42.27	210
26.1	55.593	39	59.78	295	34.830	— 27	22.45	139	51.870	— 21	48.01	— 13	9.364	15	40.17	239
Nov. 5.0	55.554	— 19	56.83	318	34.857	91	21.06	127	51.891	72	48.14	31	9.349	— 37	37.78	263
15.0	55.573	80	53.65	334	34.948	156	19.79	110	51.963	125	48.45	53	9.386	90	35.15	281
25.0	55.653	142	50.31	341	35.104	219	18.69	86	52.088	174	48.98	73	9.476	144	32.34	293
Dez. 4.9	55.795	199	46.90	338	35.323	276	17.83	58	52.262	221	49.71	93	9.620	193	29.41	296
14.9	55.994	251	43.52	325	35.599	325	17.25	29	52.483	260	50.64	110	9.813	238	26.45	291
24.9	56.245	297	40.27	302	35.924	365	16.96	— 3	52.743	293	51.74	124	10.051	276	23.54	275
34.9	56.542		37.25		36.289		16.99		53.036		52.98		10.327		20.79	
Mittl. Ort	54.704		67.72		32.197		7.17		49.481		36.60		7.857		48.04	
sec δ, tg δ	1.327		+0.873		1.323		−0.866		1.033		−0.259		1.122		+0.509	

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Mittlere Zeit Greenw.	582) α Serpentis				583) β Serpentis				584) κ Serpentis				585) μ Serpentis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	15h 40m		+6° 40′		15h 42m		+15° 40′		15h 44m		+18° 23′		15h 45m		−3° 10′	
Jan. 0.9	7.576	286	70.36	209	18.377	283	49.52	238	57.220	281	47.58	246	13.898	288	34.46	172
10.8	7.862	305	68.27	197	18.660	304	47.14	217	57.501	304	45.12	224	14.186	308	36.18	168
20.8	8.167	316	66.30	176	18.964	317	44.97	190	57.805	318	42.88	193	14.494	318	37.86	158
30.8	8.483	318	64.54	151	19.281	321	43.07	155	58.123	322	40.95	157	14.812	321	39.44	142
Feb. 9.8	8.801	314	63.03	119	19.602	316	41.52	114	58.445	318	39.38	114	15.133	316	40.86	121
19.7	9.115	302	61.84	84	19.918	306	40.38	72	58.763	309	38.24	69	15.449	305	42.07	97
29.7	9.417	285	61.00	48	20.224	290	39.66	28	59.072	292	37.55	22	15.754	290	43.04	69
März 10.7	9.702	266	60.52	11	20.514	269	39.38	16	59.364	273	37.33	23	16.044	271	43.73	42
20.7	9.968	242	60.41	23	20.783	245	39.54	57	59.637	248	37.56	67	16.315	249	44.15	14
30.6	10.210	217	60.64	55	21.028	219	40.11	94	59.885	221	38.23	104	16.564	225	44.29	12
Apr. 9.6	10.427	191	61.19	82	21.247	191	41.05	124	60.106	193	39.27	137	16.789	200	44.17	33
19.6	10.618	164	62.01	104	21.438	162	42.29	150	60.299	164	40.64	162	16.989	173	43.84	52
29.6	10.782	134	63.05	120	21.600	132	43.79	167	60.463	132	42.26	181	17.162	146	43.32	67
Mai 9.5	10.916	105	64.25	132	21.732	100	45.46	178	60.595	101	44.07	192	17.308	117	42.65	78
19.5	11.021	75	65.57	136	21.832	68	47.24	183	60.696	68	45.99	196	17.425	87	41.87	84
29.5	11.096	44	66.93	138	21.900	36	49.07	180	60.764	35	47.95	193	17.512	56	41.03	87
Juni 8.4	11.140	12	68.31	133	21.936	4	50.87	173	60.799	2	49.88	185	17.568	25	40.16	87
18.4	11.152	18	69.64	126	21.940	27	52.60	161	60.801	30	51.73	172	17.593	7	39.29	85
28.4	11.134	48	70.90	115	21.913	59	54.21	144	60.771	61	53.45	153	17.586	38	38.44	80
Juli 8.4	11.086	77	72.05	101	21.854	87	55.65	124	60.710	91	54.98	132	17.548	68	37.64	74
18.3	11.009	102	73.06	86	21.767	113	56.89	102	60.619	117	56.30	107	17.480	94	36.90	66
28.3	10.907	124	73.92	68	21.654	135	57.91	77	60.502	140	57.37	80	17.386	117	36.24	57
Aug. 7.3	10.783	141	74.60	50	21.519	152	58.68	50	60.362	156	58.17	52	17.269	135	35.67	48
17.3	10.642	151	75.10	30	21.367	163	59.18	23	60.206	168	58.69	22	17.134	147	35.19	37
27.2	10.491	154	75.40	9	21.204	166	59.41	6	60.038	171	58.91	9	16.987	151	34.82	25
Sept. 6.2	10.337	150	75.49	13	21.038	161	59.35	35	59.867	167	58.82	40	16.836	147	34.57	12
16.2	10.187	136	75.36	36	20.877	147	59.00	64	59.700	154	58.42	72	16.689	134	34.45	3
26.1	10.051	113	75.00	60	20.730	125	58.36	95	59.546	131	57.70	104	16.555	112	34.48	19
Okt. 6.1	9.938	83	74.40	84	20.605	95	57.41	124	59.415	101	56.66	135	16.443	81	34.67	37
16.1	9.855	44	73.56	109	20.510	56	56.17	153	59.314	62	55.31	165	16.362	43	35.04	56
26.1	9.811	1	72.47	133	20.454	11	54.64	180	59.252	17	53.66	192	16.319	2	35.60	77
Nov. 5.0	9.810	48	71.14	156	20.443	38	52.84	204	59.235	31	51.74	217	16.321	50	36.37	97
15.0	9.858	98	69.58	177	20.481	88	50.80	225	59.266	83	49.57	237	16.371	101	37.34	118
25.0	9.956	147	67.81	193	20.569	138	48.55	239	59.349	133	47.20	253	16.472	149	38.52	136
Dez. 5.0	10.103	193	65.88	205	20.707	185	46.16	249	59.482	182	44.67	260	16.621	196	39.88	152
14.9	10.296	233	63.83	212	20.892	228	43.67	250	59.664	224	42.07	261	16.817	236	41.40	163
24.9	10.529	266	61.71	211	21.120	263	41.17	244	59.888	261	39.46	253	17.053	268	43.03	169
34.9	10.795		59.60		21.383		38.73		60.149		36.93		17.321		44.72	
Mittl. Ort	7.754		80.82		18.610		62.07		57.487		60.67		14.075		26.43	
sec δ, tg δ	1.007		+0.117		1.039		+0.281		1.054		+0.333		1.002		−0.055	

Mittlere Zeit Greenw.	588) ε Serpentis AR.		Dekl.		590) ζ Ursae minoris AR.		Dekl.		589) β Triang. aust. AR.		Dekl.		593) ε Coron. bor. AR.		Dekl.	
	15h 46m		+4° 43′		15h 46m		+78° 2′		15h 47m		−63° 10′		15h 54m		+27° 6′	
Jan. 0.9	37.446s	282	37.18″	201	57.23s	74	51.39″	287	42.53s	57	17.23″	87	6.139s	278	58.73″	269
10.9	37.728	303	35.17	190	57.97	88	48.52	238	43.10	61	16.36	45	6.417	306	56.04	243
20.8	38.031	314	33.27	173	58.85	99	46.14	182	43.71	64	15.91	2	6.723	322	53.61	205
30.8	38.345	317	31.54	149	59.84	106	44.32	118	44.35	65	15.89	40	7.045	330	51.56	162
Feb. 9.8	38.662	314	30.05	119	60.90	108	43.14	51	45.00	66	16.29	80	7.375	331	49.94	114
19.7	38.976	303	28.86	87	61.98	108	42.63	17	45.66	63	17.09	116	7.706	322	48.80	61
29.7	39.279	288	27.99	52	63.06	103	42.80	83	46.29	60	18.25	149	8.028	306	48.19	7
März 10.7	39.567	269	27.47	17	64.09	95	43.63	145	46.89	57	19.74	178	8.334	287	48.12	44
20.7	39.836	247	27.30	16	65.04	83	45.08	201	47.46	53	21.52	202	8.621	262	48.56	93
30.6	40.083	223	27.46	47	65.87	69	47.09	246	47.99	47	23.54	222	8.883	234	49.49	136
Apr. 9.6	40.306	197	27.93	73	66.56	53	49.55	283	48.46	43	25.76	236	9.117	204	50.85	172
19.6	40.503	170	28.66	95	67.09	35	52.38	308	48.89	36	28.12	248	9.321	172	52.57	201
29.6	40.673	142	29.61	112	67.44	17	55.46	323	49.25	29	30.60	253	9.493	138	54.58	221
Mai 9.5	40.815	112	30.73	122	67.61	1	58.69	325	49.54	23	33.13	254	9.631	104	56.79	233
19.5	40.927	82	31.95	129	67.60	20	61.94	317	49.77	16	35.67	249	9.735	68	59.12	237
29.5	41.009	52	33.24	129	67.40	37	65.11	301	49.93	8	38.16	239	9.803	32	61.49	232
Juni 8.4	41.061	20	34.53	127	67.03	52	68.12	274	50.01	1	40.55	224	9.835	4	63.81	222
18.4	41.081	12	35.80	120	66.51	67	70.86	241	50.02	7	42.79	202	9.831	40	66.03	205
28.4	41.069	43	37.00	110	65.84	81	73.27	201	49.95	14	44.81	176	9.791	73	68.08	182
Juli 8.4	41.026	71	38.10	99	65.03	91	75.28	156	49.81	21	46.57	144	9.718	105	69.90	156
18.3	40.955	98	39.09	84	64.12	99	76.84	109	49.60	26	48.01	107	9.613	133	71.46	125
28.3	40.857	122	39.93	68	63.13	106	77.93	58	49.34	32	49.08	68	9.480	158	72.71	93
Aug. 7.3	40.735	138	40.61	52	62.07	111	78.51	5	49.02	35	49.76	24	9.322	177	73.64	58
17.3	40.597	150	41.13	33	60.96	111	78.56	46	48.67	37	50.00	19	9.145	188	74.22	21
27.2	40.447	155	41.46	14	59.85	111	78.10	98	48.30	38	49.81	64	8.957	194	74.43	17
Sept. 6.2	40.292	151	41.60	7	58.74	107	77.12	147	47.92	36	49.17	107	8.763	190	74.26	54
16.2	40.141	138	41.53	28	57.67	101	75.65	195	47.56	33	48.10	147	8.573	177	73.72	91
26.1	40.003	116	41.25	50	56.66	92	73.70	239	47.23	27	46.63	181	8.396	156	72.81	128
Okt. 6.1	39.887	87	40.75	73	55.74	81	71.31	278	46.96	21	44.82	209	8.240	124	71.53	164
16.1	39.800	48	40.02	96	54.93	67	68.53	313	46.75	12	42.73	228	8.116	85	69.89	197
26.1	39.752	5	39.06	121	54.26	51	65.40	340	46.63	3	40.45	240	8.031	41	67.92	228
Nov. 5.0	39.747	43	37.85	143	53.75	33	62.00	360	46.60	7	38.05	240	7.990	11	65.64	254
15.0	39.790	93	36.42	163	53.42	14	58.40	371	46.67	18	35.65	232	8.001	64	63.10	275
25.0	39.883	142	34.79	181	53.28	6	54.69	372	46.85	28	33.33	213	8.065	118	60.35	288
Dez. 5.0	40.025	188	32.98	194	53.34	27	50.97	362	47.13	38	31.20	187	8.183	168	57.47	295
14.9	40.213	229	31.04	201	53.61	46	47.35	342	47.51	46	29.33	154	8.351	216	54.52	293
24.9	40.442	263	29.03	202	54.07	63	43.93	310	47.97	53	27.79	115	8.567	255	51.59	280
34.9	40.705		27.01		54.70		40.83		48.50		26.64		8.822		48.79	
Mittl. Ort	37.645		47.10		61.77		72.49		43.75		21.38		6.543		73.35	
sec δ, tg δ	1.003		+0.083		4.831		+4.726		2.216		−1.978		1.124		+0.512	

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Mittlere Zeit Greenw.	594) δ Scorpii AR.		594) δ Scorpii Dekl.		598) ϑ Draconis AR.		598) ϑ Draconis Dekl.		597) β Scorpii AR.		597) β Scorpii Dekl.		603) δ Ophiuchi AR.		603) δ Ophiuchi Dekl.	
	15h 55m		−22° 23′		16h 0m		+58° 46′		16h 0m		−19° 34′		16h 9m		−3° 28′	
Jan. 0.9	21.549s	310	4.74″	85	17.354s	353	62.45″	311	32.721s	301	39.70″	94	56.250s	272	52.11″	163
10.9	21.859	332	5.59	97	17.707	409	59.34	269	33.022	323	40.64	104	56.522	295	53.74	159
20.8	22.191	343	6.56	105	18.116	449	56.65	216	33.345	336	41.68	110	56.817	310	55.33	151
30.8	22.534	348	7.61	110	18.565	476	54.49	156	33.681	341	42.78	111	57.127	316	56.84	135
Feb. 9.8	22.882	344	8.71	110	19.041	486	52.93	92	34.022	338	43.89	108	57.443	316	58.19	114
19.7	23.226	335	9.81	106	19.527	481	52.01	23	34.360	329	44.97	101	57.759	309	59.33	91
29.7	23.561	320	10.87	99	20.008	463	51.78	44	34.689	316	45.98	92	58.068	298	60.24	64
März 10.7	23.881	302	11.86	90	20.471	432	52.22	107	35.005	299	46.90	80	58.366	282	60.88	37
20.7	24.183	280	12.76	80	20.903	390	53.29	167	35.304	278	47.70	67	58.648	264	61.25	9
30.6	24.463	257	13.56	69	21.293	339	54.96	218	35.582	255	48.37	54	58.912	243	61.34	16
Apr. 9.6	24.720	231	14.25	59	21.632	281	57.14	260	35.837	231	48.91	42	59.155	220	61.18	38
19.6	24.951	204	14.84	49	21.913	218	59.74	292	36.068	205	49.33	31	59.375	195	60.80	58
29.6	25.155	175	15.33	40	22.131	152	62.66	313	36.273	177	49.64	22	59.570	169	60.22	72
Mai 9.5	25.330	145	15.73	32	22.283	85	65.79	322	36.450	147	49.86	14	59.739	141	59.50	83
19.5	25.475	112	16.05	26	22.368	17	69.01	322	36.597	115	50.00	8	59.880	110	58.67	89
29.5	25.587	78	16.31	20	22.385	50	72.23	312	36.712	81	50.08	2	59.990	78	57.78	93
Juni 8.4	25.665	43	16.51	13	22.335	114	75.35	292	36.793	47	50.10	3	60.068	46	56.85	92
18.4	25.708	7	16.64	7	22.221	176	78.27	265	36.840	11	50.07	7	60.114	12	55.93	89
28.4	25.715	28	16.71	1	22.045	231	80.92	230	36.851	24	50.00	12	60.126	21	55.04	84
Juli 8.4	25.687	62	16.72	6	21.814	280	83.22	191	36.827	57	49.88	16	60.105	54	54.20	77
18.3	25.625	93	16.66	13	21.534	324	85.13	147	36.770	89	49.72	21	60.051	83	53.43	68
28.3	25.532	120	16.53	21	21.210	359	86.60	99	36.681	116	49.51	26	59.968	110	52.75	60
Aug. 7.3	25.412	142	16.32	30	20.851	385	87.59	50	36.565	138	49.25	31	59.858	132	52.15	49
17.3	25.270	156	16.02	37	20.466	400	88.09	2	36.427	153	48.94	36	59.726	147	51.66	39
27.2	25.114	163	15.65	44	20.066	404	88.07	53	36.274	160	48.58	40	59.579	156	51.27	26
Sept. 6.2	24.951	159	15.21	50	19.662	396	87.54	104	36.114	158	48.18	44	59.423	155	51.01	14
16.2	24.792	146	14.71	54	19.266	375	86.50	153	35.956	146	47.74	45	59.268	146	50.87	0
26.2	24.646	123	14.17	55	18.891	342	84.97	200	35.810	124	47.29	43	59.122	127	50.87	15
Okt. 6.1	24.523	90	13.62	52	18.549	296	82.97	244	35.686	93	46.86	38	58.995	99	51.02	32
16.1	24.433	49	13.10	45	18.253	238	80.53	282	35.593	52	46.48	31	58.896	63	51.34	51
26.1	24.384	1	12.65	35	18.015	169	77.71	317	35.541	7	46.17	19	58.833	21	51.85	70
Nov. 5.0	24.383	52	12.30	22	17.846	94	74.54	343	35.534	45	45.98	6	58.812	27	52.55	89
15.0	24.435	107	12.08	4	17.752	11	71.11	361	35.579	99	45.92	12	58.839	76	53.44	109
25.0	24.542	159	12.04	15	17.741	74	67.50	370	35.678	150	46.04	31	58.915	126	54.53	127
Dez. 5.0	24.701	208	12.19	35	17.815	159	63.80	368	35.828	201	46.35	49	59.041	174	55.80	142
14.9	24.909	253	12.54	54	17.974	238	60.12	355	36.029	243	46.84	68	59.215	215	57.22	153
24.9	25.162	289	13.08	73	18.212	312	56.57	330	36.272	279	47.52	83	59.430	251	58.75	159
34.9	25.451		13.81		18.524		53.27		36.551		48.35		59.681		60.34	
Mittl. Ort	21.806		1.12		18.795		81.42		32.981		35.38		56.517		44.24	
sec δ, tg δ	1.082		−0.412		1.930		+1.651		1.061		−0.356		1.002		−0.061	

Mittlere Zeit Greenw.	606) 19 Ursae min. AR.		606) Dekl.		604) γ^2 Normae AR.		604) Dekl.		605) ε Ophiuchi AR.		605) Dekl.		608) τ Herculis AR.		608) Dekl.	
	16h 13m		+76° 4′		16h 13m		−49° 57′		16h 13m		−4° 29′		16h 17m		+46° 30′	
Jan. 0.9	7.64	57	63.26	310	32.128	402	0.97	61	52.216	270	26.91	157	11.920	284	29.70	313
10.9	8.21	70	60.16	266	32.530	437	0.36	30	52.486	294	28.48	154	12.204	327	26.57	278
20.9	8.91	81	57.50	213	32.967	461	0.06	1	52.780	309	30.02	145	12.531	358	23.79	233
30.8	9.72	89	55.37	153	33.428	473	0.07	32	53.089	317	31.47	132	12.889	379	21.46	179
Feb. 9.8	10.61	94	53.84	88	33.901	475	0.39	59	53.406	316	32.79	112	13.268	388	19.67	119
19.8	11.55	94	52.96	20	34.376	468	0.98	85	53.722	311	33.91	90	13.656	386	18.48	56
29.7	12.49	92	52.76	48	34.844	454	1.83	106	54.033	299	34.81	64	14.042	376	17.92	8
März 10.7	13.41	87	53.24	112	35.298	433	2.89	126	54.332	285	35.45	37	14.418	355	18.00	71
20.7	14.28	78	54.36	172	35.731	407	4.15	142	54.617	267	35.82	11	14.773	328	18.71	129
30.7	15.06	68	56.08	223	36.138	377	5.57	155	54.884	246	35.93	14	15.101	295	20.00	182
Apr. 9.6	15.74	55	58.31	266	36.515	343	7.12	165	55.130	224	35.79	35	15.396	255	21.82	225
19.6	16.29	41	60.97	298	36.858	306	8.77	172	55.354	200	35.44	54	15.651	213	24.07	261
29.6	16.70	26	63.95	319	37.164	264	10.49	178	55.554	174	34.90	68	15.864	167	26.68	286
Mai 9.6	16.96	10	67.14	328	37.428	218	12.27	178	55.728	145	34.22	79	16.031	119	29.54	300
19.5	17.06	6	70.42	328	37.646	170	14.05	178	55.873	115	33.43	86	16.150	70	32.54	306
29.5	17.00	21	73.70	317	37.816	118	15.83	172	55.988	83	32.57	88	16.220	20	35.60	300
Juni 8.5	16.79	35	76.87	298	37.934	65	17.55	163	56.071	50	31.69	88	16.240	29	38.60	288
18.4	16.44	49	79.85	269	37.999	11	19.18	150	56.121	16	30.81	86	16.211	77	41.48	266
28.4	15.95	61	82.54	234	38.010	43	20.68	132	56.137	18	29.95	81	16.134	123	44.14	237
Juli 8.4	15.34	72	84.88	194	37.967	95	22.00	112	56.119	50	29.14	74	16.011	165	46.51	204
18.4	14.62	81	86.82	149	37.872	143	23.12	86	56.069	81	28.40	67	15.846	203	48.55	166
28.3	13.81	88	88.31	100	37.729	184	23.98	58	55.988	108	27.73	59	15.643	235	50.21	123
Aug. 7.3	12.93	94	89.31	49	37.545	218	24.56	26	55.880	131	27.14	49	15.408	260	51.44	78
17.3	11.99	96	89.80	2	37.327	241	24.82	6	55.749	146	26.65	39	15.148	278	52.22	32
27.2	11.03	97	89.78	54	37.086	253	24.76	39	55.603	156	26.26	28	14.870	287	52.54	17
Sept. 6.2	10.06	96	89.24	106	36.833	250	24.37	73	55.447	156	25.98	16	14.583	285	52.37	65
16.2	9.10	91	88.18	155	36.583	235	23.64	103	55.291	147	25.82	3	14.298	274	51.72	112
26.2	8.19	86	86.63	202	36.348	204	22.61	130	55.144	129	25.79	11	14.024	250	50.60	158
Okt. 6.1	7.33	76	84.61	246	36.144	161	21.31	153	55.015	101	25.90	27	13.774	217	49.02	202
16.1	6.57	66	82.15	285	35.983	104	19.78	168	54.914	66	26.17	44	13.557	174	47.00	243
26.1	5.91	53	79.30	317	35.879	39	18.10	177	54.848	23	26.61	63	13.383	122	44.57	279
Nov. 5.1	5.38	37	76.13	344	35.840	33	16.33	178	54.825	24	27.24	82	13.261	62	41.78	308
15.0	5.01	21	72.69	362	35.873	109	14.55	172	54.849	73	28.06	101	13.199	2	38.70	332
25.0	4.80	4	69.07	369	35.982	183	12.83	158	54.922	124	29.07	119	13.201	68	35.38	346
Dez. 5.0	4.76	13	65.38	368	36.165	253	11.25	138	55.046	170	30.26	134	13.269	133	31.92	351
14.9	4.89	31	61.70	354	36.418	317	9.87	112	55.216	213	31.60	146	13.402	196	28.41	345
24.9	5.20	47	58.16	328	36.735	371	8.75	83	55.429	250	33.06	153	13.598	251	24.96	327
34.9	5.67		54.88		37.106		7.92		55.679		34.59		13.849		21.69	
Mittl. Ort	12.06		82.32		32.840		1.97		52.494		19.28		12.902		46.20	
sec δ, tg δ	4.160		+4.038		1.554		−1.190		1.003		−0.078		1.453		+1.054	

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Mittlere Zeit Greenw.	609) γ Herculis AR.		609) γ Herculis Dekl.		611) γ Apodis AR.		611) γ Apodis Dekl.		615) η Draconis AR.		615) η Draconis Dekl.		616) α Scorpii AR.		616) α Scorpii Dekl.	
	$16^h\ 18^m$		+19° 20′		$16^h\ 20^m$		−78° 42′		$16^h\ 22^m$		+61° 41′		$16^h\ 24^m$		−26° 14′	
Jan. 0.9	12.386	256	46.34	250	27.47	109	34.68	186	49.10	34	57.22	325	14.876	297	51.24	46
10.9	12.642	284	43.84	230	28.56	121	32.82	142	49.44	40	53.97	286	15.173	325	51.70	59
20.9	12.926	303	41.54	202	29.77	131	31.40	94	49.84	45	51.11	236	15.498	341	52.29	71
30.8	13.229	314	39.52	166	31.08	138	30.46	45	50.29	50	48.75	179	15.839	351	53.00	79
Feb. 9.8	13.543	317	37.86	124	32.46	140	30.01	4	50.79	51	46.96	114	16.190	353	53.79	82
19.8	13.860	312	36.62	79	33.86	141	30.05	51	51.30	52	45.82	48	16.543	349	54.61	83
29.7	14.172	303	35.83	31	35.27	138	30.56	97	51.82	51	45.34	21	16.892	338	55.44	81
März 10.7	14.475	288	35.52	17	36.65	132	31.53	138	52.33	48	45.55	88	17.230	324	56.25	76
20.7	14.763	268	35.69	62	37.97	125	32.91	176	52.81	45	46.43	148	17.554	307	57.01	71
30.7	15.031	246	36.31	104	39.22	114	34.67	211	53.26	39	47.91	204	17.861	286	57.72	65
Apr. 9.6	15.277	221	37.35	138	40.36	103	36.78	239	53.65	34	49.95	250	18.147	264	58.37	59
19.6	15.498	194	38.73	168	41.39	89	39.17	262	53.99	27	52.45	286	18.411	238	58.96	53
29.6	15.692	164	40.41	190	42.28	75	41.79	281	54.26	19	55.31	311	18.649	210	59.49	48
Mai 9.6	15.856	132	42.31	204	43.03	58	44.60	293	54.45	13	58.42	326	18.859	179	59.97	43
19.5	15.988	99	44.35	211	43.61	40	47.53	297	54.58	5	61.68	330	19.038	146	60.40	39
29.5	16.087	65	46.46	211	44.01	23	50.50	297	54.63	3	64.98	324	19.184	110	60.79	36
Juni 8.5	16.152	30	48.57	204	44.24	4	53.47	287	54.60	9	68.22	308	19.294	72	61.15	32
18.4	16.182	6	50.61	193	44.28	14	56.34	271	54.51	17	71.30	285	19.366	34	61.47	27
28.4	16.176	41	52.54	176	44.14	32	59.05	248	54.34	23	74.15	253	19.400	6	61.74	22
Juli 8.4	16.135	74	54.30	154	43.82	48	61.53	217	54.11	30	76.68	216	19.394	44	61.96	15
18.4	16.061	105	55.84	130	43.34	64	63.70	180	53.81	35	78.84	174	19.350	81	62.11	7
28.3	15.956	133	57.14	103	42.70	76	65.50	136	53.46	39	80.58	128	19.269	113	62.18	2
Aug. 7.3	15.823	154	58.17	74	41.94	86	66.86	89	53.07	42	81.86	78	19.156	139	62.16	12
17.3	15.669	172	58.91	43	41.08	93	67.75	37	52.65	45	82.64	27	19.017	160	62.04	22
27.2	15.497	180	59.34	11	40.15	96	68.12	18	52.20	46	82.91	24	18.857	172	61.82	34
Sept. 6.2	15.317	181	59.45	21	39.19	95	67.94	73	51.74	45	82.67	77	18.685	173	61.48	43
16.2	15.136	172	59.24	55	38.24	90	67.21	125	51.29	44	81.90	127	18.512	165	61.05	52
26.2	14.964	155	58.69	87	37.34	80	65.96	173	50.85	41	80.63	176	18.347	145	60.53	58
Okt. 6.1	14.809	128	57.82	120	36.54	67	64.23	217	50.44	36	78.87	223	18.202	115	59.95	61
16.1	14.681	93	56.62	151	35.87	50	62.06	253	50.08	31	76.64	265	18.087	76	59.34	60
26.1	14.588	51	55.11	181	35.37	30	59.53	278	49.77	23	73.99	301	18.011	29	58.74	56
Nov. 5.1	14.537	3	53.30	208	35.07	9	56.75	294	49.54	16	70.98	332	17.982	23	58.18	47
15.0	14.534	47	51.22	230	34.98	15	53.81	299	49.38	7	67.66	355	18.005	79	57.71	35
25.0	14.581	99	48.92	248	35.13	37	50.82	292	49.31	2	64.11	368	18.084	133	57.36	20
Dez. 5.0	14.680	147	46.44	259	35.50	59	47.90	275	49.33	11	60.43	370	18.217	186	57.16	2
14.9	14.827	193	43.85	261	36.09	81	45.15	248	49.44	21	56.73	362	18.403	233	57.14	16
24.9	15.020	233	41.24	256	36.90	98	42.67	213	49.65	29	53.11	342	18.636	274	57.30	33
34.9	15.253		38.68		37.88		40.54		49.94		49.69		18.910		57.63	
Mittl. Ort	12.815		58.60		31.57		38.42		51.01		74.80		15.240		47.83	
sec δ, tg δ	1.060		+0.351		5.108		−5.009		2.110		+1.858		1.115		−0.493	

Mittlere Zeit Greenw.	618) β Herculis				619) *A* Draconis				621) σ Herculis				622) ζ Ophiuchi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$16^h\ 26^m$		$+21°\ 39'$		$16^h\ 28^m$		$+68°\ 56'$		$16^h\ 31^m$		$+42°\ 36'$		$16^h\ 32^m$		$-10°\ 23'$	
Jan. 0.9	36.000	250	66.28	258	5.55	39	42.10	325	22.731	261	19.66	313	31.569	263	58.90	121
10.9	36.250	279	63.70	238	5.94	48	38.85	286	22.992	301	16.53	280	31.832	289	60.11	123
20.9	36.529	300	61.32	208	6.42	55	35.99	237	23.293	334	13.73	240	32.121	308	61.34	120
30.8	36.829	312	59.24	171	6.97	61	33.62	179	23.627	354	11.33	190	32.429	316	62.54	112
Feb. 9.8	37.141	318	57.53	128	7.58	65	31.83	114	23.981	366	9.43	133	32.745	320	63.66	99
19.8	37.459	315	56.25	81	8.23	66	30.69	47	24.347	367	8.10	72	33.065	317	64.65	82
29.8	37.774	306	55.44	31	8.89	64	30.22	22	24.714	360	7.38	9	33.382	309	65.47	64
März 10.7	38.080	293	55.13	19	9.53	62	30.44	89	25.074	345	7.29	52	33.691	297	66.11	43
20.7	38.373	275	55.32	66	10.15	57	31.33	151	25.419	321	7.81	111	33.988	282	66.54	22
30.7	38.648	253	55.98	109	10.72	50	32.84	205	25.740	294	8.92	164	34.270	264	66.76	2
Apr. 9.6	38.901	229	57.07	146	11.22	43	34.89	253	26.034	260	10.56	209	34.534	244	66.78	16
19.6	39.130	201	58.53	177	11.65	34	37.42	288	26.294	222	12.65	247	34.778	221	66.62	31
29.6	39.331	171	60.30	201	11.99	24	40.30	315	26.516	182	15.12	274	34.999	195	66.31	43
Mai 9.6	39.502	139	62.31	215	12.23	14	43.45	330	26.698	138	17.86	291	35.194	167	65.88	51
19.5	39.641	106	64.46	224	12.37	4	46.75	334	26.836	92	20.77	299	35.361	138	65.37	57
29.5	39.747	70	66.70	224	12.41	6	50.09	327	26.928	46	23.76	297	35.499	105	64.80	61
Juni 8.5	39.817	34	68.94	217	12.35	16	53.36	313	26.974	0	26.73	287	35.604	70	64.19	60
18.5	39.851	2	71.11	206	12.19	26	56.49	288	26.974	47	29.60	269	35.674	36	63.59	60
28.4	39.849	39	73.17	187	11.93	34	59.37	257	26.927	92	32.29	245	35.710	1	62.99	57
Juli 8.4	39.810	73	75.04	166	11.59	42	61.94	219	26.835	134	34.74	213	35.709	36	62.42	53
18.4	39.737	106	76.70	140	11.17	49	64.13	176	26.701	172	36.87	178	35.673	70	61.89	50
28.3	39.631	135	78.10	112	10.68	55	65.89	130	26.529	206	38.65	137	35.603	101	61.39	44
Aug. 7.3	39.496	158	79.22	81	10.13	59	67.19	80	26.323	233	40.02	96	35.502	126	60.95	40
17.3	39.338	176	80.03	49	9.54	61	67.99	29	26.090	253	40.98	50	35.376	145	60.55	36
27.3	39.162	186	80.52	15	8.93	63	68.28	24	25.837	264	41.48	4	35.231	158	60.19	30
Sept. 6.2	38.976	188	80.67	19	8.30	63	68.04	76	25.573	266	41.52	43	35.073	161	59.89	24
16.2	38.788	180	80.48	55	7.67	61	67.28	127	25.307	258	41.09	89	34.912	154	59.65	16
26.2	38.608	164	79.93	89	7.06	57	66.01	176	25.049	239	40.20	135	34.758	139	59.49	8
Okt. 6.2	38.444	139	79.04	123	6.49	52	64.25	223	24.810	209	38.85	179	34.619	113	59.41	2
16.1	38.305	104	77.81	156	5.97	44	62.02	265	24.601	170	37.06	220	34.506	79	59.43	14
26.1	38.201	62	76.25	186	5.53	36	59.37	302	24.431	122	34.86	257	34.427	37	59.57	28
Nov. 5.1	38.139	15	74.39	215	5.17	26	56.35	333	24.309	67	32.29	288	34.390	10	59.85	44
15.0	38.124	35	72.24	238	4.91	14	53.02	355	24.242	8	29.41	315	34.400	60	60.29	61
25.0	38.159	87	69.86	256	4.77	3	49.47	369	24.234	55	26.26	331	34.460	110	60.90	77
Dez. 5.0	38.246	138	67.30	267	4.74	9	45.78	372	24.289	117	22.95	340	34.570	158	61.67	92
15.0	38.384	184	64.63	270	4.83	21	42.06	362	24.406	175	19.55	338	34.728	203	62.59	105
24.9	38.568	225	61.93	265	5.04	32	38.44	342	24.581	229	16.17	324	34.931	241	63.64	115
34.9	38.793		59.28		5.36		35.02		24.810		12.93		35.172		64.79	
Mittl. Ort	36.491		78.63		8.44		59.68		23.673		34.79		31.900		52.47	
sec δ, tg δ	1.076		+0.397		2.784		+2.598		1.359		+0.920		1.017		−0.184	

Mittlere Zeit Greenw.	625) α Triang. aust.				626) η Herculis				627) Gr. 2377				628) ε Scorpii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$16^h\ 39^m$		−68° 52′		$16^h\ 40^m$		+39° 4′		$16^h\ 43^m$		+56° 55′		$16^h\ 44^m$		−34° 8′	
	s		″		s		″		s		″		s		″	
Jan. 0.9	43.49	60	28.71	173	0.061	247	38.92	309	40.406	279	37.97	333	42.654	300	32.88	10
10.9	44.09	68	26.98	136	0.308	286	35.83	280	40.685	340	34.64	300	42.954	332	32.78	— 7
20.9	44.77	73	25.62	95	0.594	317	33.03	241	41.025	389	31.64	254	43.286	355	32.85	24
30.8	45.50	77	24.67	53	0.911	339	30.62	195	41.414	427	29.10	202	43.641	368	33.09	39
Feb. 9.8	46.27	80	24.14	12	1.250	350	28.67	140	41.841	450	27.08	141	44.009	375	33.48	50
19.8	47.07	79	24.02	— 30	1.600	353	27.27	81	42.291	460	25.67	74	44.384	374	33.98	59
29.7	47.86	79	24.32	68	1.953	347	26.46	20	42.751	456	24.93	8	44.758	368	34.57	65
März 10.7	48.65	76	25.00	105	2.300	334	26.26	— 40	43.207	441	24.85	— 59	45.126	357	35.22	70
20.7	49.41	73	26.05	138	2.634	316	26.66	98	43.648	413	25.44	123	45.483	341	35.92	73
30.7	50.14	68	27.43	168	2.950	290	27.64	150	44.061	377	26.67	179	45.824	322	36.65	75
Apr. 9.6	50.82	63	29.11	194	3.240	260	29.14	197	44.438	331	28.46	230	46.146	300	37.40	76
19.6	51.45	56	31.05	216	3.500	226	31.11	233	44.769	279	30.76	269	46.446	275	38.16	78
29.6	52.01	48	33.21	234	3.726	189	33.44	262	45.048	221	33.45	300	46.721	246	38.94	78
Mai 9.6	52.49	41	35.55	247	3.915	148	36.06	281	45.269	159	36.45	319	46.967	213	39.72	78
19.5	52.90	31	38.02	254	4.063	106	38.87	291	45.428	96	39.64	329	47.180	178	40.50	78
29.5	53.21	22	40.56	255	4.169	63	41.78	291	45.524	30	42.93	328	47.358	138	41.28	77
Juni 8.5	53.43	11	43.11	251	4.232	17	44.69	282	45.554	— 35	46.21	317	47.496	98	42.05	74
18.4	53.54	2	45.62	240	4.249	— 27	47.51	267	45.519	99	49.38	299	47.594	53	42.79	71
28.4	53.56	— 8	48.02	223	4.222	70	50.18	243	45.420	160	52.37	271	47.647	9	43.50	64
Juli 8.4	53.48	18	50.25	198	4.152	112	52.61	216	45.260	216	55.08	239	47.656	— 35	44.14	55
18.4	53.30	27	52.23	168	4.040	151	54.77	181	45.044	267	57.47	200	47.621	77	44.69	45
28.3	53.03	35	53.91	132	3.889	184	56.58	144	44.777	312	59.47	156	47.544	115	45.14	31
Aug. 7.3	52.68	42	55.23	91	3.705	212	58.02	104	44.465	347	61.03	109	47.429	147	45.45	16
17.3	52.26	46	56.14	47	3.493	233	59.06	61	44.118	375	62.12	61	47.282	174	45.61	— 1
27.2	51.80	50	56.61	— 2	3.260	246	59.67	16	43.743	389	62.73	10	47.108	189	45.60	19
Sept. 6.2	51.30	49	56.59	49	3.014	250	59.83	— 30	43.354	394	62.83	— 42	46.919	195	45.41	37
16.2	50.81	49	56.10	96	2.764	243	59.53	74	42.960	385	62.41	93	46.724	189	45.04	54
26.2	50.32	43	55.14	142	2.521	227	58.79	119	42.575	363	61.48	143	46.535	171	44.50	69
Okt. 6.1	49.89	37	53.72	182	2.294	200	57.60	163	42.212	328	60.05	190	46.364	143	43.81	81
16.1	49.52	28	51.90	215	2.094	163	55.97	203	41.884	282	58.15	236	46.221	103	43.00	89
26.1	49.24	18	49.75	240	1.931	119	53.94	240	41.602	223	55.79	275	46.118	56	42.11	92
Nov. 5.1	49.06	6	47.35	257	1.812	66	51.54	273	41.379	156	53.04	310	46.062	0	41.19	91
15.0	49.00	— 6	44.78	264	1.746	9	48.81	300	41.223	80	49.94	337	46.062	59	40.28	85
25.0	49.06	20	42.14	259	1.737	— 50	45.81	319	41.143	1	46.57	356	46.121	117	39.43	74
Dez. 5.0	49.26	32	39.55	247	1.787	109	42.62	328	41.142	— 81	43.01	364	46.238	174	38.69	59
15.0	49.58	44	37.08	225	1.896	164	39.34	329	41.223	160	39.37	361	46.412	228	38.10	43
24.9	50.02	54	34.83	196	2.060	217	36.05	319	41.383	235	35.76	346	46.640	272	37.67	24
34.9	50.56		32.87		2.277		32.86		41.618		32.30		46.912		37.43	
Mittl. Ort	45.43		30.56		0.947		53.07		42.125		53.57		43.137		30.27	
sec δ, tg δ	2.775		−2.588		1.288		+0.812		1.833		+1.536		1.208		−0.678	

Mittlere Zeit Greenw.	629) 49 Herculis				630) ζ^2 Scorpii				631) ζ Arae				633) $\varkappa$ Ophiuchi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$16^h\ 48^m$		$+15°\ 6'$		$16^h\ 48^m$		$-42°\ 13'$		$16^h\ 51^m$		$-55°\ 51'$		$16^h\ 53^m$		$+9°\ 29'$	
Jan. 0.9	14.851	232	40.96	234	39.440	326	8.35	56	38.778	403	31.64	129	41.017	229	67.56	209
10.9	15.083	262	38.62	219	39.766	363	7.79	34	39.181	452	30.35	98	41.246	258	65.47	198
20.9	15.345	285	36.43	196	40.129	389	7.45	12	39.633	490	29.37	68	41.504	281	63.49	180
30.8	15.630	299	34.47	166	40.518	406	7.33	10	40.123	515	28.69	35	41.785	295	61.69	154
Feb. 9.8	15.929	307	32.81	129	40.924	414	7.43	29	40.638	528	28.34	4	42.080	303	60.15	123
19.8	16.236	308	31.52	87	41.338	414	7.72	46	41.166	532	28.30	26	42.383	305	58.92	86
29.8	16.544	303	30.65	44	41.752	409	8.18	61	41.698	527	28.56	54	42.688	301	58.06	47
März 10.7	16.847	294	30.21	1	42.161	398	8.79	75	42.225	513	29.10	80	42.989	292	57.59	7
20.7	17.141	280	30.22	45	42.559	381	9.54	85	42.738	494	29.90	104	43.281	279	57.52	31
30.7	17.421	263	30.67	85	42.940	361	10.39	94	43.232	466	30.94	125	43.560	264	57.83	68
Apr. 9.6	17.684	242	31.52	120	43.301	337	11.33	103	43.698	435	32.19	144	43.824	245	58.51	100
19.6	17.926	218	32.72	150	43.638	308	12.36	110	44.133	396	33.63	160	44.069	223	59.51	128
29.6	18.144	192	34.22	173	43.946	276	13.46	115	44.529	353	35.23	174	44.292	198	60.79	149
Mai 9.6	18.336	163	35.95	190	44.222	240	14.61	119	44.882	303	36.97	184	44.490	170	62.28	163
19.5	18.499	132	37.85	199	44.462	199	15.80	122	45.185	248	38.81	190	44.660	140	63.91	173
29.5	18.631	98	39.84	201	44.661	156	17.02	122	45.433	190	40.71	192	44.800	107	65.64	176
Juni 8.5	18.729	62	41.85	199	44.817	109	18.24	119	45.623	126	42.63	191	44.907	72	67.40	174
18.4	18.791	25	43.84	189	44.926	59	19.43	114	45.749	61	44.54	184	44.979	36	69.14	166
28.4	18.816	11	45.73	176	44.985	10	20.57	106	45.810	6	46.38	171	45.015	0	70.80	155
Juli 8.4	18.805	48	47.49	158	44.995	40	21.63	94	45.804	70	48.09	154	45.015	37	72.35	140
18.4	18.757	81	49.07	137	44.955	88	22.57	78	45.734	132	49.63	133	44.978	71	73.75	123
28.3	18.676	113	50.44	113	44.867	130	23.35	60	45.602	188	50.96	105	44.907	104	74.98	102
Aug. 7.3	18.563	140	51.57	88	44.737	166	23.95	38	45.414	235	52.01	74	44.803	130	76.00	81
17.3	18.423	161	52.45	60	44.571	196	24.33	14	45.179	272	52.75	39	44.673	152	76.81	58
27.3	18.262	174	53.05	32	44.375	214	24.47	11	44.907	296	53.14	2	44.521	167	77.39	34
Sept. 6.2	18.088	179	53.37	2	44.161	220	24.36	37	44.611	304	53.16	36	44.354	174	77.73	9
16.2	17.909	177	53.39	29	43.941	215	23.99	62	44.307	297	52.80	75	44.180	170	77.82	16
26.2	17.732	162	53.10	58	43.726	197	23.37	84	44.010	273	52.05	109	44.010	159	77.66	43
Okt. 6.2	17.570	141	52.52	89	43.529	164	22.53	105	43.737	233	50.96	141	43.851	136	77.23	69
16.1	17.429	109	51.63	119	43.365	122	21.48	120	43.504	177	49.55	168	43.715	107	76.54	95
26.1	17.320	71	50.44	148	43.243	69	20.28	129	43.327	110	47.87	187	43.608	69	75.59	120
Nov. 5.1	17.249	27	48.96	174	43.174	8	18.99	134	43.217	32	46.00	200	43.539	25	74.39	145
15.0	17.222	22	47.22	198	43.166	56	17.65	132	43.185	50	44.00	204	43.514	23	72.94	168
25.0	17.244	72	45.24	217	43.222	122	16.33	123	43.235	135	41.96	200	43.537	71	71.26	185
Dez. 5.0	17.316	121	43.07	230	43.344	186	15.10	111	43.370	217	39.96	189	43.608	120	69.41	201
15.0	17.437	167	40.77	238	43.530	244	13.99	92	43.587	294	38.07	171	43.728	164	67.40	208
24.9	17.604	207	38.39	236	43.774	295	13.07	72	43.881	362	36.36	147	43.892	205	65.32	210
34.9	17.811		36.03		44.069		12.35		44.243		34.89		44.097		63.22	
Mittl. Ort	15.349		51.44		40.051		6.76		39.789		31.57		41.481		77.04	
sec δ, tg δ	1.036		+0.270		1.350		−0.907		1.782		−1.475		1.014		+0.167	

Mittlere Zeit Greenw.	634) ε Herculis				637) η Ophiuchi				639) ζ Draconis				640) α Herculis			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
	16h 57m		+31° 2′		17h 5m		−15° 37′		17h 8m		+65° 48′		17h 10m		+14° 28′	
Jan. 0.9	3.744	224	45.55	291	33.128	243	24.58	77	29.58	27	50.96	344	48.432	212	57.13	229
10.9	3.968	261	42.64	268	33.371	274	25.35	81	29.85	36	47.52	315	48.644	245	54.84	215
20.9	4.229	289	39.96	236	33.645	297	26.16	83	30.21	44	44.37	274	48.889	270	52.69	195
30.8	4.518	310	37.60	195	33.942	311	26.99	79	30.65	50	41.63	222	49.159	288	50.74	167
Feb. 9.8	4.828	323	35.65	147	34.253	319	27.78	71	31.15	54	39.41	164	49.447	298	49.07	131
19.8	5.151	328	34.18	94	34.572	323	28.49	61	31.69	57	37.77	98	49.745	305	47.76	92
29.8	5.479	325	33.24	38	34.895	319	29.10	48	32.26	58	36.79	31	50.050	303	46.84	48
März 10.7	5.804	317	32.86	18	35.214	313	29.58	32	32.84	58	36.48	38	50.353	298	46.36	4
20.7	6.121	303	33.04	74	35.527	303	29.90	17	33.42	54	36.86	103	50.651	287	46.32	39
30.7	6.424	284	33.78	123	35.830	289	30.07	3	33.96	51	37.89	164	50.938	274	46.71	80
Apr. 9.7	6.708	260	35.01	168	36.119	273	30.10	11	34.47	45	39.53	218	51.212	257	47.51	117
19.6	6.968	232	36.69	206	36.392	253	29.99	22	34.92	38	41.71	262	51.469	235	48.68	148
29.6	7.200	202	38.75	235	36.645	229	29.77	30	35.30	31	44.33	298	51.704	211	50.16	172
Mai 9.6	7.402	167	41.10	255	36.874	204	29.47	36	35.61	23	47.31	322	51.915	184	51.88	190
19.5	7.569	130	43.65	268	37.078	173	29.11	39	35.84	13	50.53	336	52.099	153	53.78	201
29.5	7.699	91	46.33	270	37.251	141	28.72	40	35.97	5	53.89	340	52.252	119	55.79	206
Juni 8.5	7.790	50	49.03	267	37.392	105	28.32	40	36.02	3	57.29	334	52.371	84	57.85	203
18.5	7.840	9	51.70	254	37.497	68	27.92	38	35.99	13	60.63	319	52.455	46	59.88	197
28.4	7.849	33	54.24	236	37.565	28	27.54	36	35.86	22	63.82	296	52.501	8	61.85	184
Juli 8.4	7.816	73	56.60	211	37.593	11	27.18	32	35.64	29	66.78	265	52.509	30	63.69	167
18.4	7.743	111	58.71	183	37.582	49	26.86	29	35.35	36	69.43	229	52.479	67	65.36	147
28.4	7.632	145	60.54	151	37.533	85	26.57	28	34.99	43	71.72	186	52.412	101	66.83	124
Aug. 7.3	7.487	175	62.05	115	37.448	115	26.29	25	34.56	48	73.58	142	52.311	131	68.07	99
17.3	7.312	197	63.20	76	37.333	141	26.04	24	34.08	52	75.00	92	52.180	154	69.06	72
27.3	7.115	213	63.96	37	37.192	158	25.80	23	33.56	54	75.92	41	52.026	172	69.78	44
Sept. 6.2	6.902	220	64.33	4	37.034	167	25.57	22	33.02	56	76.33	11	51.854	181	70.22	15
16.2	6.682	218	64.29	46	36.867	167	25.35	21	32.46	56	76.22	64	51.673	181	70.37	15
26.2	6.464	204	63.83	86	36.700	155	25.14	17	31.90	53	75.58	116	51.492	171	70.22	45
Okt. 6.2	6.260	182	62.97	127	36.545	133	24.97	14	31.37	50	74.42	166	51.321	152	69.77	75
16.1	6.078	150	61.70	167	36.412	103	24.83	8	30.87	44	72.76	213	51.169	124	69.02	104
26.1	5.928	110	60.03	202	36.309	64	24.75	0	30.43	38	70.63	257	51.045	88	67.98	134
Nov. 5.1	5.818	64	58.01	235	36.245	18	24.75	10	30.05	30	68.06	296	50.957	45	66.64	161
15.1	5.754	11	55.66	263	36.227	31	24.85	22	29.75	20	65.10	327	50.912	1	65.03	185
25.0	5.743	42	53.03	283	36.258	81	25.07	35	29.55	11	61.83	350	50.913	50	63.18	205
Dez. 5.0	5.785	97	50.20	298	36.339	132	25.42	48	29.44	0	58.33	363	50.963	99	61.13	220
15.0	5.882	148	47.22	302	36.471	177	25.90	60	29.44	11	54.70	365	51.062	145	58.93	229
24.9	6.030	195	44.20	296	36.648	219	26.50	70	29.55	21	51.05	354	51.207	187	56.64	230
34.9	6.225		41.24		36.867		27.20		29.76		47.51		51.394		54.34	
Mittl. Ort	4.514		57.73		33.538		18.88		32.44		64.87		48.991		66.69	
sec δ, tg δ	1.167		+0.602		1.038		−0.280		2.441		+2.227		1.033		+0.258	

Mittlere Zeit Greenw.	641) δ Herculis AR.	Δ	641) δ Herculis Dekl.	Δ	643) π Herculis AR.	Δ	643) π Herculis Dekl.	Δ	644) ϑ Ophiuchi AR.	Δ	644) ϑ Ophiuchi Dekl.	Δ	645) β Arae AR.	Δ	645) β Arae Dekl.	Δ
	$17^h\ 11^m$		$+24°\ 55'$		$17^h\ 12^m$		$+36°\ 53'$		$17^h\ 16^m$		$-24°\ 55'$		$17^h\ 18^m$		$-55°\ 27'$	
Jan. 0.9	34.141	209	64.26	271	6.278	209	59.51	308	50.471	250	4.83	19	17.780	362	8.12	151
10.9	34.350	244	61.55	253	6.487	252	56.43	286	50.721	282	5.02	27	18.142	417	6.61	126
20.9	34.594	273	59.02	226	6.739	287	53.57	253	51.003	308	5.29	35	18.559	459	5.35	98
30.9	34.867	294	56.76	191	7.026	312	51.04	211	51.311	325	5.64	40	19.018	491	4.37	69
Feb. 9.8	35.161	307	54.85	148	7.338	330	48.93	161	51.636	335	6.04	41	19.509	511	3.68	41
19.8	35.468	314	53.37	100	7.668	339	47.32	105	51.971	341	6.45	40	20.020	522	3.27	12
29.8	35.782	314	52.37	48	8.007	341	46.27	46	52.312	340	6.85	36	20.542	523	3.15	15
März 10.7	36.096	308	51.89	4	8.348	335	45.81	14	52.652	335	7.21	31	21.065	517	3.30	42
20.7	36.404	298	51.93	56	8.683	323	45.95	73	52.987	325	7.52	26	21.582	504	3.72	66
30.7	36.702	283	52.49	103	9.006	305	46.68	126	53.312	314	7.78	21	22.086	484	4.38	90
Apr. 9.7	36.985	263	53.52	146	9.311	282	47.94	176	53.626	297	7.99	16	22.570	457	5.28	110
19.6	37.248	239	54.98	183	9.593	253	49.70	217	53.923	278	8.15	12	23.027	426	6.38	130
29.6	37.487	213	56.81	212	9.846	220	51.87	250	54.201	255	8.27	10	23.453	385	7.68	147
Mai 9.6	37.700	181	58.93	233	10.066	184	54.37	273	54.456	228	8.37	9	23.838	340	9.15	161
19.6	37.881	148	61.26	246	10.250	144	57.10	289	54.684	197	8.46	9	24.178	288	10.76	172
29.5	38.029	112	63.72	251	10.394	102	59.99	293	54.881	162	8.55	11	24.466	231	12.48	180
Juni 8.5	38.141	73	66.23	248	10.496	57	62.92	291	55.043	124	8.66	12	24.697	169	14.28	183
18.5	38.214	33	68.71	240	10.553	12	65.83	279	55.167	84	8.78	13	24.866	103	16.11	181
28.4	38.247	7	71.11	224	10.565	33	68.62	262	55.251	41	8.91	15	24.969	35	17.92	175
Juli 8.4	38.240	47	73.35	204	10.532	77	71.24	237	55.292	1	9.06	14	25.004	31	19.67	163
18.4	38.193	86	75.39	178	10.455	119	73.61	207	55.291	43	9.20	12	24.973	98	21.30	146
28.4	38.107	120	77.17	150	10.336	157	75.68	173	55.248	82	9.32	9	24.875	158	22.76	123
Aug. 7.3	37.987	151	78.67	118	10.179	190	77.41	136	55.166	117	9.41	4	24.717	211	23.99	95
17.3	37.836	176	79.85	84	9.989	216	78.77	95	55.049	146	9.45	2	24.506	255	24.94	65
27.3	37.660	194	80.69	49	9.773	235	79.72	51	54.903	166	9.43	10	24.251	285	25.59	29
Sept. 6.3	37.466	202	81.18	11	9.538	245	80.23	8	54.737	177	9.33	18	23.966	303	25.88	8
16.2	37.264	203	81.29	26	9.293	244	80.31	37	54.560	178	9.15	26	23.663	303	25.80	46
26.2	37.061	192	81.03	64	9.049	233	79.94	81	54.382	168	8.89	33	23.360	287	25.34	82
Okt. 6.2	36.869	174	80.39	101	8.816	213	79.13	126	54.214	147	8.56	39	23.073	255	24.52	117
16.1	36.695	144	79.38	138	8.603	181	77.87	168	54.067	116	8.17	41	22.818	206	23.35	147
26.1	36.551	107	78.00	172	8.422	142	76.19	208	53.951	76	7.76	42	22.612	145	21.88	171
Nov. 5.1	36.444	63	76.28	204	8.280	94	74.11	243	53.875	29	7.34	40	22.467	73	20.17	189
15.1	36.381	15	74.24	231	8.186	42	71.68	274	53.846	23	6.94	33	22.394	7	18.28	199
25.0	36.366	36	71.93	254	8.144	15	68.94	297	53.869	76	6.61	24	22.401	89	16.29	201
Dez. 5.0	36.402	87	69.39	269	8.159	71	65.97	313	53.945	129	6.37	14	22.490	170	14.28	196
15.0	36.489	136	66.70	276	8.230	127	62.84	319	54.074	178	6.23	3	22.660	249	12.32	184
25.0	36.625	182	63.94	274	8.357	179	59.65	314	54.252	222	6.20	10	22.909	319	10.48	166
34.9	36.807		61.20		8.536		56.51		54.474		6.30		23.228		8.82	
Mittl. Ort	34.847		74.97		7.252		71.34		50.931		0.21		18.808		6.66	
sec δ, tg δ	1.103		+0.465		1.251		+0.751		1.103		−0.465		1.760		−1.448	

Mittlere Zeit Greenw.	648) δ Arae AR.		648) δ Arae Dekl.		651) α Arae AR.		651) α Arae Dekl.		652) λ Scorpii AR.		652) λ Scorpii Dekl.		653) β Draconis AR.		653) β Draconis Dekl.	
	17h 23m		−60° 36′		17h 25m		−49° 48′		17h 27m		−37° 2′		17h 28m		+52° 21′	
Jan. 0.9	29.45 s	40	55.66″	180	19.891 s	318	41.48″	127	53.545 s	267	40.61″	58	30.337 s	200	35.58″	341
10.9	29.85	46	53.86	154	20.209	367	40.21	106	53.812	306	40.03	44	30.537	259	32.17	318
20.9	30.31	51	52.32	124	20.576	405	39.15	83	54.118	335	39.59	30	30.796	311	28.99	283
30.9	30.82	55	51.08	93	20.981	433	38.32	60	54.453	359	39.29	15	31.107	354	26.16	238
Feb. 9.8	31.37	58	50.15	60	21.414	452	37.72	35	54.812	373	39.14	3	31.461	385	23.78	183
19.8	31.95	60	49.55	28	21.866	462	37.37	12	55.185	381	39.11	—8	31.846	405	21.95	123
29.8	32.55	59	49.27	—4	22.328	465	37.25	—10	55.566	383	39.19	17	32.251	415	20.72	58
März 10.8	33.14	59	49.31	34	22.793	461	37.35	31	55.949	379	39.36	25	32.666	413	20.14	—8
20.7	33.73	58	49.65	64	23.254	450	37.66	51	56.328	371	39.61	32	33.079	402	20.22	74
30.7	34.31	56	50.29	93	23.704	435	38.17	69	56.699	360	39.93	40	33.481	380	20.96	134
Apr. 9.7	34.87	52	51.22	117	24.139	413	38.86	86	57.059	342	40.33	46	33.861	351	22.30	190
19.6	35.39	49	52.39	141	24.552	386	39.72	103	57.401	322	40.79	52	34.212	314	24.20	237
29.6	35.88	44	53.80	161	24.938	354	40.75	117	57.723	297	41.31	59	34.526	270	26.57	275
Mai 9.6	36.32	39	55.41	179	25.292	315	41.92	130	58.020	267	41.90	66	34.796	220	29.32	304
19.6	36.71	33	57.20	192	25.607	270	43.22	140	58.287	232	42.56	71	35.016	166	32.36	323
29.5	37.04	27	59.12	202	25.877	221	44.62	148	58.519	193	43.27	76	35.182	109	35.59	332
Juni 8.5	37.31	19	61.14	207	26.098	168	46.10	152	58.712	149	44.03	80	35.291	49	38.91	331
18.5	37.50	12	63.21	206	26.266	109	47.62	152	58.861	104	44.83	82	35.340	—11	42.22	321
28.5	37.62	3	65.27	199	26.375	50	49.14	148	58.965	54	45.65	80	35.329	71	45.43	303
Juli 8.4	37.65	—4	67.26	187	26.425	—10	50.62	139	59.019	5	46.45	77	35.258	128	48.46	277
18.4	37.61	11	69.13	169	26.415	70	52.01	126	59.024	—43	47.22	70	35.130	182	51.23	245
28.4	37.50	19	70.82	144	26.345	124	53.27	108	58.981	88	47.92	60	34.948	232	53.68	209
Aug. 7.3	37.31	25	72.26	115	26.221	174	54.35	85	58.893	130	48.52	47	34.716	274	55.77	166
17.3	37.06	30	73.41	80	26.047	213	55.20	58	58.763	164	48.99	31	34.442	309	57.43	121
27.3	36.76	33	74.21	41	25.834	244	55.78	29	58.599	189	49.30	13	34.133	334	58.64	74
Sept. 6.3	36.43	36	74.62	0	25.590	260	56.07	—3	58.410	203	49.43	—8	33.799	349	59.38	23
16.2	36.07	36	74.62	42	25.330	263	56.04	36	58.207	207	49.35	28	33.450	351	59.61	—27
26.2	35.71	34	74.20	83	25.067	251	55.68	68	58.000	197	49.07	47	33.099	342	59.34	79
Okt. 6.2	35.37	31	73.37	123	24.816	224	55.00	98	57.803	176	48.60	66	32.757	320	58.55	128
16.2	35.06	25	72.14	157	24.592	182	54.02	123	57.627	142	47.94	80	32.437	286	57.27	177
26.1	34.81	19	70.57	186	24.410	130	52.79	146	57.485	99	47.14	93	32.151	241	55.50	222
Nov. 5.1	34.62	10	68.71	207	24.280	66	51.33	161	57.386	47	46.21	99	31.910	186	53.28	263
15.1	34.52	1	66.64	222	24.214	—4	49.72	169	57.339	—10	45.22	102	31.724	123	50.65	298
25.1	34.51	—8	64.42	227	24.218	76	48.03	172	57.349	70	44.20	99	31.601	55	47.67	325
Dez. 5.0	34.59	17	62.15	224	24.294	149	46.31	167	57.419	128	43.21	93	31.546	—16	44.42	343
15.0	34.76	26	59.91	213	24.443	217	44.64	156	57.547	185	42.28	82	31.562	89	40.99	352
25.0	35.02	35	57.78	196	24.660	280	43.08	141	57.732	236	41.46	69	31.651	157	37.47	347
34.9	35.37		55.82		24.940		41.67		57.968		40.77		31.808		34.00	
Mittl. Ort	30.75		54.35		20.725		39.19		54.125		37.04		32.044		47.15	
sec δ, tg δ	2.038		−1.776		1.550		−1.184		1.253		−0.755		1.638		+1.297	

Mittlere Zeit Greenw.	656) α Ophiuchi AR.		656) α Ophiuchi Dekl.		654) ϑ Scorpii AR.		654) ϑ Scorpii Dekl.		658) ξ Serpentis AR.		658) ξ Serpentis Dekl.		663) ι Herculis AR.		663) ι Herculis Dekl.	
	$17^h\ 31^m$		$+12°\ 36'$		$17^h\ 31^m$		$-42°\ 56'$		$17^h\ 32^m$		$-15°\ 20'$		$17^h\ 37^m$		$+46°\ 2'$	
Jan. 0.9	1.481	195	64.35	216	16.141	282	47.36	94	46.080	220	53.94	66	4.175	184	50.80	332
10.9	1.676	229	62.19	207	16.423	325	46.42	78	46.300	251	54.60	69	4.359	235	47.48	311
20.9	1.905	256	60.12	189	16.748	359	45.64	59	46.551	277	55.29	68	4.594	281	44.37	280
30.9	2.161	276	58.23	163	17.107	384	45.05	41	46.828	297	55.97	65	4.875	319	41.57	238
Feb. 9.8	2.437	290	56.60	131	17.491	401	44.64	24	47.125	308	56.62	56	5.194	346	39.19	186
19.8	2.727	299	55.29	94	17.892	411	44.40	8	47.433	316	57.18	46	5.540	364	37.33	129
29.8	3.026	301	54.35	52	18.303	414	44.32	8	47.749	317	57.64	31	5.904	374	36.04	66
März 10.8	3.327	299	53.83	9	18.717	411	44.40	23	48.066	316	57.95	17	6.278	375	35.38	2
20.7	3.626	292	53.74	32	19.128	404	44.63	35	48.382	309	58.12	1	6.653	367	35.36	61
30.7	3.918	282	54.06	73	19.532	390	44.98	48	48.691	301	58.13	13	7.020	351	35.97	121
Apr. 9.7	4.200	268	54.79	109	19.922	373	45.46	60	48.992	287	58.00	26	7.371	327	37.18	175
19.6	4.468	249	55.88	140	20.295	351	46.06	72	49.279	270	57.74	37	7.698	297	38.93	223
29.6	4.717	228	57.28	166	20.646	323	46.78	82	49.549	251	57.37	45	7.995	262	41.16	262
Mai 9.6	4.945	202	58.94	184	20.969	291	47.60	92	49.800	225	56.92	49	8.257	220	43.78	291
19.6	5.147	172	60.78	196	21.260	252	48.52	100	50.025	198	56.43	52	8.477	174	46.69	311
29.5	5.319	140	62.74	201	21.512	210	49.52	108	50.223	166	55.91	52	8.651	126	49.80	321
Juni 8.5	5.459	105	64.75	201	21.722	163	50.60	112	50.389	131	55.39	50	8.777	73	53.01	322
18.5	5.564	66	66.76	194	21.885	111	51.72	114	50.520	92	54.89	45	8.850	20	56.23	315
28.5	5.630	28	68.70	184	21.996	59	52.86	113	50.612	51	54.44	41	8.870	34	59.38	298
Juli 8.4	5.658	12	70.54	169	22.055	5	53.99	107	50.663	11	54.03	36	8.836	86	62.36	275
18.4	5.646	50	72.23	149	22.060	48	55.06	98	50.674	30	53.67	31	8.750	136	65.11	245
28.4	5.596	86	73.72	128	22.012	98	56.04	85	50.644	68	53.36	27	8.614	182	67.56	211
Aug. 7.3	5.510	119	75.00	105	21.914	143	56.89	67	50.576	102	53.09	22	8.432	221	69.67	172
17.3	5.391	145	76.05	79	21.771	180	57.56	47	50.474	132	52.87	20	8.211	256	71.39	128
27.3	5.246	166	76.84	53	21.591	208	58.03	24	50.342	154	52.67	17	7.955	280	72.67	83
Sept. 6.3	5.080	177	77.37	25	21.383	224	58.27	1	50.188	167	52.50	16	7.675	295	73.50	36
16.2	4.903	181	77.62	3	21.159	229	58.26	28	50.021	170	52.34	13	7.380	300	73.86	14
26.2	4.722	174	77.59	32	20.930	219	57.98	54	49.851	164	52.21	12	7.080	294	73.72	62
Okt. 6.2	4.548	159	77.27	61	20.711	196	57.44	77	49.687	147	52.09	8	6.786	275	73.10	112
16.2	4.389	133	76.66	89	20.515	161	56.67	99	49.540	120	52.01	4	6.511	245	71.98	159
26.1	4.256	99	75.77	117	20.354	114	55.68	115	49.420	84	51.97	3	6.266	206	70.39	203
Nov. 5.1	4.157	59	74.60	144	20.240	59	54.53	127	49.336	42	52.00	11	6.060	158	68.36	244
15.1	4.098	16	73.16	168	20.181	3	53.26	133	49.294	5	52.11	20	5.902	102	65.92	280
25.0	4.083	33	71.48	188	20.184	67	51.93	134	49.299	54	52.31	31	5.800	41	63.12	307
Dez. 5.0	4.116	81	69.60	205	20.251	131	50.59	129	49.353	104	52.62	42	5.759	22	60.05	328
15.0	4.197	126	67.55	214	20.382	192	49.30	119	49.457	150	53.04	51	5.781	85	56.77	337
25.0	4.323	169	65.41	217	20.574	247	48.11	106	49.607	193	53.55	60	5.866	146	53.40	337
34.9	4.492		63.24		20.821		47.05		49.800		54.15		6.012		50.03	
Mittl. Ort	2.068		72.94		16.817		44.22		46.531		48.12		5.582		61.35	
sec δ, tg δ	1.025		+0.224		1.366		−0.931		1.037		−0.274		1.441		+1.037	

Mittlere Zeit Greenw.	664) ω Draconis AR.		664) ω Draconis Dekl.		661) η Pavonis AR.		661) η Pavonis Dekl.		665) β Ophiuchi AR.		665) β Ophiuchi Dekl.		667) μ Herculis AR.		667) μ Herculis Dekl.	
	17h 37m		+68° 47′		17h 37m		−64° 40′		17h 39m		+4° 35′		17h 43m		+27° 45′	
Jan. 1.0	22.81	21	37.66	350	27.49	42	67.95	211	18.808	193	57.48	174	9.350	176	59.45	281
10.9	23.02	33	34.16	328	27.91	49	65.84	185	19.001	225	55.74	168	9.526	215	56.64	266
20.9	23.35	42	30.88	293	28.40	55	63.99	157	19.226	252	54.06	155	9.741	249	53.98	242
30.9	23.77	50	27.95	247	28.95	61	62.42	125	19.478	272	52.51	135	9.990	275	51.56	209
Feb. 9.8	24.27	58	25.48	193	29.56	64	61.17	91	19.750	287	51.16	110	10.265	294	49.47	166
19.8	24.85	61	23.55	130	30.20	66	60.26	56	20.037	295	50.06	80	10.559	308	47.81	119
29.8	25.46	64	22.25	64	30.86	68	59.70	21	20.332	299	49.26	46	10.867	314	46.62	66
März 10.8	26.10	64	21.61	4	31.54	67	59.49	13	20.631	298	48.80	11	11.181	315	45.96	12
20.7	26.74	63	21.65	71	32.21	66	59.62	46	20.929	293	48.69	25	11.496	310	45.84	42
30.7	27.37	59	22.36	134	32.87	64	60.08	78	21.222	284	48.94	58	11.806	301	46.26	94
Apr. 9.7	27.96	55	23.70	192	33.51	61	60.86	108	21.506	272	49.52	88	12.107	284	47.20	140
19.7	28.51	48	25.62	242	34.12	58	61.94	135	21.778	256	50.40	114	12.391	264	48.60	181
29.6	28.99	39	28.04	282	34.70	52	63.29	160	22.034	236	51.54	136	12.655	240	50.41	215
Mai 9.6	29.38	31	30.86	314	35.22	46	64.89	182	22.270	212	52.90	150	12.895	211	52.56	240
19.6	29.69	21	34.00	334	35.68	39	66.71	199	22.482	184	54.40	161	13.106	177	54.96	258
29.5	29.90	12	37.34	344	36.07	32	68.70	212	22.666	153	56.01	165	13.283	142	57.54	266
Juni 8.5	30.02	1	40.78	344	36.39	24	70.82	221	22.819	119	57.66	164	13.425	101	60.20	269
18.5	30.03	9	44.22	336	36.63	15	73.03	222	22.938	82	59.30	159	13.526	60	62.89	262
28.5	29.94	20	47.58	319	36.78	6	75.25	219	23.020	42	60.89	150	13.586	16	65.51	249
Juli 8.4	29.74	28	50.77	293	36.84	3	77.44	208	23.062	4	62.39	137	13.602	26	68.00	230
18.4	29.46	38	53.70	261	36.81	12	79.52	192	23.066	36	63.76	122	13.576	69	70.30	206
28.4	29.08	46	56.31	224	36.69	21	81.44	167	23.030	72	64.98	106	13.507	108	72.36	179
Aug. 7.3	28.62	52	58.55	181	36.48	27	83.11	137	22.958	106	66.04	86	13.399	143	74.15	146
17.3	28.10	58	60.36	134	36.21	34	84.48	102	22.852	133	66.90	68	13.256	173	75.61	112
27.3	27.52	62	61.70	85	35.87	39	85.50	62	22.719	156	67.58	47	13.083	196	76.73	75
Sept. 6.3	26.90	64	62.55	34	35.48	41	86.12	19	22.563	168	68.05	27	12.887	210	77.48	37
16.2	26.26	65	62.89	19	35.07	43	86.31	27	22.395	173	68.32	5	12.677	215	77.85	3
26.2	25.61	64	62.70	72	34.64	41	86.04	72	22.222	168	68.37	16	12.462	211	77.82	43
Okt. 6.2	24.97	60	61.98	123	34.23	37	85.32	116	22.054	152	68.21	39	12.251	195	77.39	83
16.2	24.37	56	60.75	174	33.86	32	84.16	154	21.902	129	67.82	60	12.056	172	76.56	122
26.1	23.81	49	59.01	222	33.54	24	82.62	189	21.773	96	67.22	83	11.884	138	75.34	159
Nov. 5.1	23.32	41	56.79	264	33.30	16	80.73	216	21.677	57	66.39	105	11.746	97	73.75	195
15.1	22.91	32	54.15	301	33.14	6	78.57	236	21.620	13	65.34	125	11.649	52	71.80	225
25.0	22.59	21	51.14	330	33.08	5	76.21	245	21.607	33	64.09	143	11.597	2	69.55	251
Dez. 5.0	22.38	9	47.84	350	33.13	16	73.76	246	21.640	80	62.66	157	11.595	50	67.04	270
15.0	22.29	2	44.34	359	33.29	26	71.30	240	21.720	125	61.09	168	11.645	99	64.34	281
25.0	22.31	15	40.75	357	33.55	35	68.90	225	21.845	167	59.41	173	11.744	146	61.53	283
34.9	22.46		37.18		33.90		66.65		22.012		57.68		11.890		58.70	
Mittl. Ort	26.46		48.82		29.07		66.13		19.336		65.08		10.199		68.58	
sec δ, tg δ	2.765		+2.578		2.339		−2.114		1.003		+0.080		1.130		+0.526	

Mittlere Zeit Greenw.	670) ψ Drac. austr. AR.		Dekl.		671) ξ Draconis AR.		Dekl.		675) 35 Draconis AR.		Dekl.		672) ϑ Herculis AR.		Dekl.	
	$17^h\ 43^m$		+72° 10′		$17^h\ 52^m$		+56° 52′		$17^h\ 53^m$		+76° 58′		$17^h\ 53^m$		+37° 15′	
Jan. 1.0	21.20	21	74.84	351	2.412	166	58.16	349	5.83	20	19.48	347	21.189	163	30.60	310
10.9	21.41	34	71.33	330	2.578	236	54.67	330	6.03	38	16.01	328	21.352	209	27.50	294
20.9	21.75	46	68.03	297	2.814	299	51.37	300	6.41	55	12.73	298	21.561	248	24.56	268
30.9	22.21	57	65.06	253	3.113	354	48.37	257	6.96	70	9.75	257	21.809	281	21.88	232
Feb. 9.8	22.78	65	62.53	198	3.467	396	45.80	207	7.66	82	7.18	205	22.090	307	19.56	187
19.8	23.43	70	60.55	138	3.863	427	43.73	147	8.48	92	5.13	146	22.397	324	17.69	133
29.8	24.13	74	59.17	73	4.290	447	42.26	82	9.40	96	3.67	82	22.721	335	16.36	77
März 10.8	24.87	75	58.44	4	4.737	453	41.44	16	10.36	99	2.85	15	23.056	339	15.59	16
20.7	25.62	73	58.40	62	5.190	447	41.28	51	11.35	98	2.70	52	23.395	335	15.43	43
30.7	26.35	70	59.02	126	5.637	432	41.79	114	12.33	93	3.22	115	23.730	326	15.86	100
Apr. 9.7	27.05	64	60.28	185	6.069	403	42.93	173	13.26	86	4.37	173	24.056	309	16.86	154
19.7	27.69	56	62.13	234	6.472	366	44.66	225	14.12	76	6.10	225	24.365	287	18.40	199
29.6	28.25	46	64.47	276	6.838	320	46.91	268	14.88	63	8.35	268	24.652	260	20.39	237
Mai 9.6	28.71	36	67.23	308	7.158	267	49.59	301	15.51	49	11.03	301	24.912	227	22.76	268
19.6	29.07	25	70.31	330	7.425	208	52.60	325	16.00	33	14.04	325	25.139	190	25.44	289
29.5	29.32	13	73.61	342	7.633	145	55.85	339	16.33	17	17.29	339	25.329	149	28.33	301
Juni 8.5	29.45	1	77.03	343	7.778	78	59.24	343	16.50	0	20.68	343	25.478	104	31.34	304
18.5	29.46	12	80.46	336	7.856	9	62.67	337	16.50	16	24.11	338	25.582	57	34.38	300
28.5	29.34	24	83.82	319	7.865	59	66.04	323	16.34	33	27.49	323	25.639	9	37.38	286
Juli 8.4	29.10	34	87.01	296	7.806	126	69.27	302	16.01	48	30.72	301	25.648	38	40.24	268
18.4	28.76	46	89.97	264	7.680	188	72.29	272	15.53	62	33.73	273	25.610	84	42.92	241
28.4	28.30	54	92.61	228	7.492	247	75.01	238	14.91	75	36.46	238	25.526	129	45.33	211
Aug. 7.4	27.76	63	94.89	186	7.245	298	77.39	198	14.16	86	38.84	198	25.397	167	47.44	176
17.3	27.13	69	96.75	141	6.947	341	79.37	154	13.30	95	40.82	154	25.230	201	49.20	137
27.3	26.44	74	98.16	92	6.606	374	80.91	106	12.35	103	42.36	107	25.029	226	50.57	96
Sept. 6.3	25.70	77	99.08	41	6.232	396	81.97	56	11.32	106	43.43	57	24.803	243	51.53	53
16.2	24.93	78	99.49	12	5.836	404	82.53	5	10.26	109	44.00	5	24.560	250	52.06	7
26.2	24.15	77	99.37	64	5.432	400	82.58	48	9.17	107	44.05	46	24.310	248	52.13	38
Okt. 6.2	23.38	74	98.73	117	5.032	382	82.10	99	8.10	104	43.59	99	24.062	233	51.75	83
16.2	22.64	69	97.56	167	4.650	351	81.11	151	7.06	98	42.60	150	23.829	210	50.92	128
26.1	21.95	61	95.89	214	4.299	308	79.60	198	6.08	89	41.10	197	23.619	176	49.64	171
Nov. 5.1	21.34	52	93.75	258	3.991	252	77.62	244	5.19	77	39.13	243	23.443	134	47.93	210
15.1	20.82	41	91.17	296	3.739	188	75.18	282	4.42	63	36.70	280	23.309	86	45.83	246
25.1	20.41	29	88.21	326	3.551	116	72.36	314	3.79	47	33.90	313	23.223	33	43.37	274
Dez. 5.0	20.12	15	84.95	348	3.435	39	69.22	338	3.32	29	30.77	336	23.190	22	40.63	297
15.0	19.97	1	81.47	357	3.396	40	65.84	351	3.03	10	27.41	350	23.212	77	37.66	309
25.0	19.96	12	77.90	357	3.436	118	62.33	352	2.93	8	23.91	350	23.289	130	34.57	312
34.9	20.08		74.33		3.554		58.81		3.01		20.41		23.419		31.45	
Mittl. Ort	25.74		85.41		4.564		67.70		12.44		28.99		22.311		39.49	
sec δ, tg δ	3.269		+3.113		1.830		+1.533		4.437		+4.323		1.256		+0.761	

Scheinbare Sternörter 1916

Mittlere Zeit Greenw.	673) ν Ophiuchi AR.		673) ν Ophiuchi Dekl.		676) γ Draconis AR.		676) γ Draconis Dekl.		677) 67 Ophiuchi AR.		677) 67 Ophiuchi Dekl.		679) γ Sagittarii AR.		679) γ Sagittarii Dekl.	
	$17^h\ 54^m$		$-9°\ 45'$		$17^h\ 54^m$		$+51°\ 29'$		$17^h\ 56^m$		$+2°\ 55'$		$18^h\ 0^m$		$-30°\ 25'$	
Jan. 1.0	23.614	192	57.49	89	37.542	161	44.60	342	25.719	178	57.83	160	24.133	216	39.36	39
10.9	23.806	226	58.38	89	37.703	220	41.18	324	25.897	212	56.23	156	24.349	255	38.97	31
20.9	24.032	253	59.27	84	37.923	275	37.94	296	26.109	240	54.67	145	24.604	287	38.66	24
30.9	24.285	275	60.11	77	38.198	322	34.98	255	26.349	262	53.22	126	24.891	312	38.42	18
Feb. 9.9	24.560	290	60.88	62	38.520	358	32.43	205	26.611	279	51.96	103	25.203	330	38.24	12
19.8	24.850	301	61.50	46	38.878	385	30.38	147	26.890	290	50.93	75	25.533	342	38.12	10
29.8	25.151	306	61.96	27	39.263	401	28.91	85	27.180	296	50.18	43	25.875	350	38.02	8
März 10.8	25.457	307	62.23	7	39.664	408	28.06	18	27.476	298	49.75	10	26.225	353	37.94	7
20.7	25.764	305	62.30	—16	40.072	403	27.88	—47	27.774	296	49.65	—24	26.578	350	37.87	7
30.7	26.069	299	62.14	35	40.475	390	28.35	109	28.070	290	49.89	57	26.928	345	37.80	5
Apr. 9.7	26.368	289	61.79	53	40.865	367	29.44	167	28.360	280	50.46	85	27.273	335	37.75	3
19.7	26.657	275	61.26	68	41.232	336	31.11	218	28.640	266	51.31	111	27.608	321	37.72	0
29.6	26.932	258	60.58	79	41.568	298	33.29	261	28.906	249	52.42	132	27.929	301	37.72	4
Mai 9.6	27.190	236	59.79	87	41.866	253	35.90	294	29.155	226	53.74	146	28.230	278	37.76	10
19.6	27.426	210	58.92	92	42.119	203	38.84	318	29.381	200	55.20	157	28.508	248	37.86	16
29.6	27.636	179	58.00	91	42.322	148	42.02	331	29.581	169	56.77	161	28.756	213	38.02	23
Juni 8.5	27.815	145	57.09	89	42.470	90	45.33	337	29.750	136	58.38	160	28.969	175	38.25	29
18.5	27.960	108	56.20	84	42.560	29	48.70	331	29.886	99	59.98	155	29.144	132	38.54	36
28.5	28.068	68	55.36	77	42.589	—30	52.01	318	29.985	59	61.53	147	29.276	87	38.90	41
Juli 8.4	28.136	26	54.59	69	42.559	90	55.19	297	30.044	19	63.00	135	29.363	39	39.31	43
18.4	28.162	—15	53.90	60	42.469	147	58.16	269	30.063	—21	64.35	120	29.402	—9	39.74	45
28.4	28.147	54	53.30	50	42.322	200	60.85	235	30.042	60	65.55	104	29.393	55	40.19	43
Aug. 7.4	28.093	90	52.80	41	42.122	246	63.20	197	29.982	94	66.59	86	29.338	97	40.62	38
17.3	28.003	121	52.39	33	41.876	286	65.17	154	29.888	125	67.45	68	29.241	133	41.00	30
27.3	27.882	146	52.06	24	41.590	316	66.71	107	29.763	149	68.13	49	29.108	163	41.30	21
Sept. 6.3	27.736	162	51.82	16	41.274	336	67.78	58	29.614	165	68.62	30	28.945	182	41.51	8
16.2	27.574	169	51.66	9	40.938	345	68.36	9	29.449	172	68.92	10	28.763	192	41.59	—4
26.2	27.405	167	51.57	1	40.593	342	68.45	—42	29.277	170	69.02	—10	28.571	189	41.55	18
Okt. 6.2	27.238	153	51.56	—7	40.251	326	68.03	94	29.107	157	68.92	31	28.382	176	41.37	31
16.2	27.085	130	51.63	15	39.925	299	67.09	144	28.950	135	68.61	51	28.206	150	41.06	43
26.1	26.955	99	51.78	26	39.626	259	65.65	191	28.815	106	68.10	72	28.056	115	40.63	53
Nov. 5.1	26.856	59	52.04	37	39.367	210	63.74	235	28.709	68	67.38	92	27.941	71	40.10	58
15.1	26.797	16	52.41	48	39.157	152	61.39	274	28.641	26	66.46	112	27.870	21	39.52	62
25.1	26.781	—30	52.89	59	39.005	88	58.65	305	28.615	—19	65.34	128	27.849	—31	38.90	62
Dez. 5.0	26.811	78	53.48	70	38.917	20	55.60	330	28.634	66	64.06	143	27.880	86	38.28	58
15.0	26.889	124	54.18	79	38.897	—50	52.30	343	28.700	110	62.63	153	27.966	137	37.70	52
25.0	27.013	166	54.97	85	38.947	117	48.87	345	28.810	152	61.10	159	28.103	186	37.18	45
35.0	27.179		55.82		39.064		45.42		28.962		59.51		28.289		36.73	
Mittl. Ort	24.090		51.25		39.310		53.80		26.257		64.83		24.661		34.40	
sec δ, tg δ	1.015		−0.172		1.606		+1.257		1.001		+0.051		1.160		−0.587	

Mittlere Zeit Greenw.	680) 72 Ophiuchi				681) o Herculis				682) μ Sagittarii				688) η Serpentis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	18h 3m		+9° 32′		18h 4m		+28° 44′		18h 8m		−21° 4′		18h 16m		−2° 55′	
Jan. 1.0	21.408	167	56.49	193	15.015	154	52.60	280	43.884	192	60.40	13	57.262	163	23.99	122
10.9	21.575	202	54.56	187	15.169	195	49.80	268	44.076	229	60.53	18	57.425	198	25.21	120
20.9	21.777	231	52.69	172	15.364	231	47.12	247	44.305	259	60.71	19	57.623	227	26.41	112
30.9	22.008	254	50.97	151	15.595	260	44.65	215	44.564	282	60.90	18	57.850	251	27.53	98
Feb. 9.9	22.262	273	49.46	123	15.855	284	42.50	175	44.846	301	61.08	14	58.101	269	28.51	81
19.8	22.535	286	48.23	89	16.139	301	40.75	127	45.147	314	61.22	8	58.370	284	29.32	57
29.8	22.821	294	47.34	52	16.440	311	39.48	76	45.461	321	61.30	0	58.654	292	29.89	32
März 10.8	23.115	297	46.82	12	16.751	317	38.72	22	45.782	326	61.30	9	58.946	298	30.21	4
20.8	23.412	296	46.70	—28	17.068	315	38.50	—34	46.108	325	61.21	18	59.244	299	30.25	—24
30.7	23.708	291	46.98	66	17.383	309	38.84	86	46.433	321	61.03	27	59.543	296	30.01	51
Apr. 9.7	23.999	282	47.64	101	17.692	298	39.70	134	46.754	314	60.76	33	59.839	289	29.50	75
19.7	24.281	268	48.65	131	17.990	280	41.04	178	47.068	301	60.43	38	60.128	279	28.75	96
29.6	24.549	251	49.96	157	18.270	258	42.82	215	47.369	284	60.05	41	60.407	264	27.79	113
Mai 9.6	24.800	228	51.53	176	18.528	230	44.97	242	47.653	264	59.64	41	60.671	245	26.66	125
19.6	25.028	202	53.29	189	18.758	199	47.39	263	47.917	237	59.23	39	60.916	220	25.41	133
29.6	25.230	171	55.18	196	18.957	163	50.02	275	48.154	206	58.84	34	61.136	191	24.08	135
Juni 8.5	25.401	136	57.14	196	19.120	123	52.77	279	48.360	170	58.50	29	61.327	158	22.73	133
18.5	25.537	99	59.10	192	19.243	81	55.56	276	48.530	132	58.21	23	61.485	121	21.40	129
28.5	25.636	59	61.02	183	19.324	36	58.32	264	48.662	88	57.98	15	61.606	82	20.11	119
Juli 8.5	25.695	19	62.85	169	19.360	—8	60.96	248	48.750	45	57.83	9	61.688	40	18.92	109
18.4	25.714	—23	64.54	152	19.352	52	63.44	225	48.795	—1	57.74	4	61.728	—1	17.83	97
28.4	25.691	61	66.06	133	19.300	94	65.69	199	48.794	43	57.70	0	61.727	42	16.86	82
Aug. 7.4	25.630	97	67.39	112	19.206	132	67.68	167	48.751	83	57.70	3	61.685	80	16.04	68
17.3	25.533	129	68.51	88	19.074	165	69.35	133	48.668	119	57.73	3	61.605	112	15.36	54
27.3	25.404	153	69.39	64	18.909	191	70.68	97	48.549	146	57.76	3	61.493	140	14.82	38
Sept. 6.3	25.251	170	70.03	39	18.718	209	71.65	57	48.403	166	57.79	0	61.353	159	14.44	24
16.3	25.081	177	70.42	13	18.509	217	72.22	18	48.237	177	57.79	4	61.194	169	14.20	10
26.2	24.904	177	70.55	—12	18.292	216	72.40	—22	48.060	176	57.75	8	61.025	170	14.10	—5
Okt. 6.2	24.727	166	70.43	39	18.076	205	72.18	64	47.884	164	57.67	11	60.855	161	14.15	19
16.2	24.561	145	70.04	66	17.871	184	71.54	104	47.720	141	57.56	14	60.694	141	14.34	35
26.2	24.416	116	69.38	91	17.687	154	70.50	143	47.579	111	57.42	16	60.553	115	14.69	49
Nov. 5.1	24.300	80	68.47	116	17.533	116	69.07	179	47.468	71	57.26	15	60.438	79	15.18	65
15.1	24.220	38	67.31	138	17.417	72	67.28	213	47.397	27	57.11	12	60.359	39	15.83	79
25.1	24.182	—6	65.93	160	17.345	24	65.15	240	47.370	—22	56.99	8	60.320	—6	16.62	93
Dez. 5.0	24.188	53	64.33	176	17.321	—26	62.75	262	47.392	72	56.91	3	60.326	50	17.55	106
15.0	24.241	97	62.57	187	17.347	76	60.13	276	47.464	119	56.88	—3	60.376	94	18.61	114
25.0	24.338	140	60.70	192	17.423	124	57.37	280	47.583	164	56.91	9	60.470	137	19.75	120
35.0	24.478		58.78		17.547		54.57		47.747		57.00		60.607		20.95	
Mittl. Ort	22.013		63.62		15.930		60.42		44.367		54.81		57.778		17.74	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		−0.386		1.001		−0.051	

Mittlere Zeit Greenw.	689) ε Sagittarii AR.		689) ε Sagittarii Dekl.		690) 109 Herculis AR.		690) 109 Herculis Dekl.		691) α Telescopii AR.		691) α Telescopii Dekl.		695) χ Draconis AR.		695) χ Draconis Dekl.	
	18h 18m		−34° 25′		18h 20m		+21° 43′		18h 20m		−46° 0′		18h 22m		+72° 41′	
Jan. 1.0	35.224	204	36.48	73	6.295	142	43.56	249	43.975	228	61.66	143	29.35	10	41.73	352
10.9	35.428	245	35.75	66	6.437	181	41.07	240	44.203	279	60.23	133	29.45	23	38.21	342
20.9	35.673	281	35.09	58	6.618	215	38.67	223	44.482	323	58.90	120	29.68	36	34.79	319
30.9	35.954	310	34.51	51	6.833	244	36.44	197	44.805	357	57.70	106	30.04	49	31.60	284
Feb. 9.9	36.264	331	34.00	45	7.077	267	34.47	162	45.162	384	56.64	90	30.53	58	28.76	237
19.8	36.595	348	33.55	38	7.344	284	32.85	121	45.546	406	55.74	74	31.11	67	26.39	183
29.8	36.943	358	33.17	33	7.628	297	31.64	74	45.952	419	55.00	58	31.78	73	24.56	121
März 10.8	37.301	365	32.84	29	7.925	304	30.90	26	46.371	426	54.42	41	32.51	76	23.35	54
20.8	37.666	366	32.55	23	8.229	305	30.64	25	46.797	429	54.01	24	33.27	77	22.81	12
30.7	38.032	364	32.32	17	8.534	303	30.89	73	47.226	426	53.77	7	34.04	75	22.93	78
Apr. 9.7	38.396	356	32.15	12	8.837	295	31.62	118	47.652	417	53.70	10	34.79	72	23.71	141
19.7	38.752	344	32.03	4	9.132	282	32.80	158	48.069	402	53.80	28	35.51	65	25.12	196
29.6	39.096	326	31.99	5	9.414	264	34.38	192	48.471	381	54.08	45	36.16	58	27.08	245
Mai 9.6	39.422	303	32.04	14	9.678	241	36.30	219	48.852	353	54.53	63	36.74	47	29.53	284
19.6	39.725	275	32.18	24	9.919	213	38.49	238	49.205	319	55.16	79	37.21	37	32.37	316
29.6	40.000	240	32.42	35	10.132	181	40.87	250	49.524	278	55.95	95	37.58	25	35.53	336
Juni 8.5	40.240	201	32.77	44	10.313	144	43.37	255	49.802	230	56.90	107	37.83	13	38.89	348
18.5	40.441	156	33.21	53	10.457	105	45.92	252	50.032	177	57.97	118	37.96	0	42.37	349
28.5	40.597	108	33.74	60	10.562	62	48.44	243	50.209	121	59.15	124	37.96	12	45.86	341
Juli 8.5	40.705	58	34.34	65	10.624	18	50.87	229	50.330	63	60.39	128	37.84	25	49.27	326
18.4	40.763	7	34.99	67	10.642	24	53.16	209	50.393	2	61.67	125	37.59	37	52.53	303
28.4	40.770	42	35.66	65	10.618	66	55.25	185	50.395	57	62.92	118	37.22	47	55.56	273
Aug. 7.4	40.728	88	36.31	60	10.552	105	57.10	159	50.338	110	64.10	107	36.75	57	58.29	237
17.3	40.640	130	36.91	51	10.447	138	58.69	128	50.228	159	65.17	90	36.18	65	60.66	196
27.3	40.510	163	37.42	40	10.309	166	59.97	96	50.069	198	66.07	69	35.53	72	62.62	151
Sept. 6.3	40.347	187	37.82	25	10.143	186	60.93	63	49.871	227	66.76	44	34.81	76	64.13	103
16.3	40.160	199	38.07	8	9.957	197	61.56	27	49.644	243	67.20	16	34.05	80	65.16	51
26.2	39.961	202	38.15	9	9.760	198	61.83	8	49.401	245	67.36	13	33.25	80	65.67	1
Okt. 6.2	39.759	190	38.06	27	9.562	189	61.75	45	49.156	233	67.23	42	32.45	79	65.66	55
16.2	39.569	168	37.79	44	9.373	172	61.30	80	48.923	208	66.81	70	31.66	75	65.11	108
26.2	39.401	134	37.35	59	9.201	145	60.50	116	48.715	169	66.11	96	30.91	70	64.03	160
Nov. 5.1	39.267	92	36.76	70	9.056	110	59.34	149	48.546	120	65.15	118	30.21	61	62.43	208
15.1	39.175	42	36.06	79	8.946	69	57.85	179	48.426	62	63.97	135	29.60	52	60.35	253
25.1	39.133	11	35.27	84	8.877	25	56.06	206	48.364	1	62.62	146	29.08	40	57.82	291
Dez. 5.0	39.144	67	34.43	84	8.852	22	54.00	226	48.365	65	61.16	153	28.68	27	54.91	322
15.0	39.211	121	33.59	83	8.874	68	51.74	242	48.430	130	59.63	153	28.41	14	51.69	343
25.0	39.332	171	32.76	78	8.942	114	49.32	247	48.560	189	58.10	148	28.27	0	48.26	351
35.0	39.503		31.98		9.056		46.85		48.749		56.62		28.27		44.75	
Mittl. Ort	35.783		31.29		7.089		50.24		44.706		56.80		34.35		48.09	
sec δ, tg δ	1.212		−0.685		1.076		+0.399		1.440		−1.036		3.362		+3.210	

Mittlere Zeit Greenw.	694) *b* Draconis				698) ζ Pavonis				699) α Lyrae				703) 110 Herculis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$18^h 22^m$		+58° 44′		$18^h 33^m$		−71° 29′		$18^h 34^m$		+38° 41′		$18^h 42^m$		+20° 27′	
Jan. 1.0	38.604	110	59.61	350	11.31	36	72.04	277	4.404	114	71.56	308	1.993	120	48.89	238
11.0	38.714	188	56.11	338	11.67	48	69.27	263	4.518	162	68.48	300	2.113	159	46.51	232
20.9	38.902	259	52.73	315	12.15	58	66.64	243	4.680	207	65.48	280	2.272	195	44.19	217
30.9	39.161	323	49.58	279	12.73	68	64.21	217	4.887	247	62.68	250	2.467	225	42.02	194
Feb. 9.9	39.484	376	46.79	233	13.41	75	62.04	186	5.134	278	60.18	210	2.692	250	40.08	163
19.8	39.860	419	44.46	178	14.16	80	60.18	153	5.412	305	58.08	161	2.942	271	38.45	123
29.8	40.279	449	42.68	116	14.96	84	58.65	116	5.717	325	56.47	106	3.213	286	37.22	80
März 10.8	40.728	466	41.52	50	15.80	87	57.49	78	6.042	337	55.41	47	3.499	297	36.42	32
20.8	41.194	472	41.02	17	16.67	88	56.71	40	6.379	343	54.94	13	3.796	303	36.10	17
30.7	41.666	464	41.19	82	17.55	87	56.31	1	6.722	342	55.07	72	4.099	304	36.27	64
Apr. 9.7	42.130	444	42.01	144	18.42	87	56.30	37	7.064	333	55.79	128	4.403	300	36.91	109
19.7	42.574	412	43.45	199	19.29	82	56.67	74	7.397	318	57.07	179	4.703	291	38.00	150
29.7	42.986	372	45.44	248	20.11	77	57.41	111	7.715	297	58.86	222	4.994	276	39.50	184
Mai 9.6	43.358	320	47.92	287	20.88	71	58.52	143	8.012	268	61.08	259	5.270	256	41.34	213
19.6	43.678	263	50.79	317	21.59	63	59.95	173	8.280	235	63.67	287	5.526	231	43.47	233
29.6	43.941	198	53.96	338	22.22	54	61.68	200	8.515	194	66.54	305	5.757	201	45.80	247
Juni 8.5	44.139	128	57.34	348	22.76	44	63.68	220	8.709	151	69.59	315	5.958	165	48.27	253
18.5	44.267	56	60.82	349	23.20	33	65.88	235	8.860	104	72.74	316	6.123	127	50.80	253
28.5	44.323	17	64.31	341	23.53	20	68.23	243	8.964	53	75.90	310	6.250	84	53.33	245
Juli 8.5	44.306	90	67.72	325	23.73	8	70.66	245	9.017	3	79.00	295	6.334	41	55.78	232
18.4	44.216	160	70.97	301	23.81	5	73.11	238	9.020	47	81.95	275	6.375	3	58.10	215
28.4	44.056	226	73.98	271	23.76	17	75.49	223	8.973	96	84.70	248	6.372	46	60.25	193
Aug. 7.4	43.830	286	76.69	235	23.59	29	77.72	201	8.877	141	87.18	217	6.326	87	62.18	167
17.4	43.544	336	79.04	194	23.30	39	79.73	170	8.736	180	89.35	180	6.239	123	63.85	139
27.3	43.208	378	80.98	149	22.91	48	81.43	134	8.556	212	91.15	141	6.116	153	65.24	108
Sept. 6.3	42.830	409	82.47	100	22.43	54	82.77	91	8.344	237	92.56	98	5.963	176	66.32	75
16.3	42.421	425	83.47	49	21.89	58	83.68	43	8.107	251	93.54	54	5.787	190	67.07	42
26.2	41.996	430	83.96	3	21.31	60	84.11	8	7.856	256	94.08	8	5.597	196	67.49	7
Okt. 6.2	41.566	420	83.93	56	20.71	58	84.03	58	7.600	250	94.16	39	5.401	190	67.56	29
16.2	41.146	396	83.37	109	20.13	54	83.45	109	7.350	233	93.77	86	5.211	176	67.27	63
26.2	40.750	359	82.28	160	19.59	46	82.36	156	7.117	207	92.91	131	5.035	152	66.64	98
Nov. 5.1	40.391	308	80.68	209	19.13	37	80.80	197	6.910	170	91.60	175	4.883	122	65.66	131
15.1	40.083	248	78.59	253	18.76	26	78.83	232	6.740	128	89.85	214	4.761	83	64.35	162
25.1	39.835	178	76.06	290	18.50	13	76.51	258	6.612	80	87.71	249	4.678	42	62.73	188
Dez. 5.1	39.657	102	73.16	320	18.37	1	73.93	276	6.532	27	85.22	277	4.636	2	60.85	211
15.0	39.555	21	69.96	340	18.38	14	71.17	284	6.505	27	82.45	296	4.638	48	58.74	227
25.0	39.534	60	66.56	349	18.52	27	68.33	283	6.532	80	79.49	306	4.686	92	56.47	236
35.0	39.594		63.07		18.79		65.50		6.612		76.43		4.778		54.11	
Mittl. Ort	41.045		66.14		13.57		67.29		5.651		77.25		2.778		54.29	
sec δ, tg δ	1.928		+1.648		3.152		−2.989		1.281		+0.801		1.067		+0.373	

Mittlere Zeit Greenw.	704) λ Pavonis AR.	Diff.	Dekl.	Diff.	705) β Lyrae AR.	Diff.	Dekl.	Diff.	707) ο Draconis AR.	Diff.	Dekl.	Diff.	706) σ Sagittarii AR.	Diff.	Dekl.	Diff.
	18h 44m		−62° 16′		18h 46m		+33° 15′		18h 49m		+59° 16′		18h 50m		−26° 24′	
Jan. 1.0	24.92	25	72.49	241	57.628	103	47.37	287	55.219	60	63.56	345	2.952	155	13.62	37
11.0	25.17	33	70.08	233	57.731	149	44.50	283	55.279	140	60.11	341	3.107	196	13.25	35
20.9	25.50	40	67.75	217	57.880	190	41.67	265	55.419	214	56.70	324	3.303	230	12.90	35
30.9	25.90	47	65.58	198	58.070	226	39.02	239	55.633	284	53.46	294	3.533	260	12.55	35
Feb. 9.9	26.37	51	63.60	174	58.296	258	36.63	202	55.917	345	50.52	254	3.793	284	12.20	37
19.9	26.88	55	61.86	147	58.554	284	34.61	158	56.262	395	47.98	203	4.077	303	11.83	40
29.8	27.43	59	60.39	119	58.838	303	33.03	106	56.657	435	45.95	145	4.380	318	11.43	43
März 10.8	28.02	60	59.20	89	59.141	318	31.97	51	57.092	461	44.50	81	4.698	329	11.00	48
20.8	28.62	61	58.31	58	59.459	325	31.46	6	57.553	476	43.69	14	5.027	336	10.52	51
30.7	29.23	62	57.73	27	59.784	327	31.52	62	58.029	478	43.55	51	5.363	338	10.01	54
Apr. 9.7	29.85	60	57.46	6	60.111	322	32.14	116	58.507	467	44.06	115	5.701	337	9.47	55
19.7	30.45	59	57.52	38	60.433	312	33.30	165	58.974	443	45.21	174	6.038	331	8.92	54
29.7	31.04	56	57.90	70	60.745	294	34.95	208	59.417	408	46.95	225	6.369	320	8.38	51
Mai 9.6	31.60	53	58.60	99	61.039	270	37.03	243	59.825	363	49.20	270	6.689	302	7.87	45
19.6	32.13	47	59.59	127	61.309	241	39.46	270	60.188	308	51.90	305	6.991	280	7.42	37
29.6	32.60	42	60.86	153	61.550	206	42.16	289	60.496	246	54.95	331	7.271	251	7.05	28
Juni 8.6	33.02	35	62.39	173	61.756	166	45.05	300	60.742	178	58.26	347	7.522	216	6.77	17
18.5	33.37	26	64.12	190	61.922	123	48.05	302	60.920	105	61.73	354	7.738	177	6.60	6
28.5	33.63	19	66.02	201	62.045	75	51.07	297	61.025	31	65.27	352	7.915	134	6.54	5
Juli 8.5	33.82	11	68.03	206	62.120	28	54.04	284	61.056	45	68.79	342	8.049	86	6.59	15
18.4	33.93	1	70.09	204	62.148	21	56.88	266	61.011	119	72.21	322	8.135	39	6.74	23
28.4	33.94	8	72.13	196	62.127	68	59.54	241	60.892	189	75.43	297	8.174	10	6.97	29
Aug. 7.4	33.86	15	74.09	179	62.059	112	61.95	212	60.703	254	78.40	265	8.164	55	7.26	33
17.4	33.71	24	75.88	157	61.947	151	64.07	179	60.449	311	81.05	227	8.109	97	7.59	34
27.3	33.47	29	77.45	126	61.796	184	65.86	142	60.138	359	83.32	185	8.012	133	7.93	32
Sept. 6.3	33.18	35	78.71	91	61.612	209	67.28	103	59.779	397	85.17	139	7.879	159	8.25	26
16.3	32.83	37	79.62	52	61.403	225	68.31	61	59.382	422	86.56	89	7.720	177	8.51	19
26.3	32.46	39	80.14	8	61.178	232	68.92	18	58.960	433	87.45	37	7.543	185	8.70	10
Okt. 6.2	32.07	39	80.22	37	60.946	228	69.10	25	58.527	431	87.82	16	7.358	180	8.80	0
16.2	31.68	35	79.85	80	60.718	213	68.85	70	58.096	415	87.66	70	7.178	164	8.80	10
26.2	31.33	31	79.05	123	60.505	191	68.15	112	57.681	385	86.96	124	7.014	140	8.70	19
Nov. 5.1	31.02	25	77.82	159	60.314	158	67.03	154	57.296	341	85.72	175	6.874	104	8.51	27
15.1	30.77	16	76.23	192	60.156	119	65.49	192	56.955	286	83.97	222	6.770	63	8.24	33
25.1	30.61	9	74.31	216	60.037	75	63.57	226	56.669	222	81.75	264	6.707	17	7.91	37
Dez. 5.1	30.52	1	72.15	233	59.962	27	61.31	254	56.447	150	79.11	299	6.690	31	7.54	39
15.0	30.53	10	69.82	244	59.935	23	58.77	273	56.297	71	76.12	326	6.721	79	7.15	39
25.0	30.63	20	67.38	245	59.958	72	56.04	285	56.226	9	72.86	340	6.800	126	6.76	39
35.0	30.83		64.93		60.030		53.19		56.235		69.46		6.926		6.37	
Mittl. Ort	26.22		66.94		58.708		52.15		57.773		67.28		3.434		7.73	
sec δ, tg δ	2.150		−1.904		1.196		+0.656		1.958		+1.683		1.116		−0.496	

Mittlere Zeit Greenw.	708) λ Telescopii AR.		Dekl.		709) ϑ Serpentis pr. AR.		Dekl.		711) *R* Lyrae AR.		Dekl.		713) γ Lyrae AR.		Dekl.	
	18h 51m		−53° 2′		18h 52m		+4° 5′		18h 52m		+43° 49′		18h 55m		+32° 34′	
Jan. 1.0	43.832	202	64.53	197	2.050	125	30.70	149	45.288	84	61.30	318	46.996	94	20.86	283
11.0	44.034	263	62.56	191	2.175	160	29.21	146	45.372	138	58.12	314	47.090	139	18.03	278
21.0	44.297	318	60.65	181	2.335	192	27.75	137	45.510	188	54.98	297	47.229	181	15.25	264
30.9	44.615	364	58.84	167	2.527	220	26.38	120	45.698	234	52.01	269	47.410	217	12.61	238
Feb. 9.9	44.979	402	57.17	150	2.747	243	25.18	98	45.932	273	49.32	231	47.627	249	10.23	204
19.9	45.381	433	55.67	132	2.990	262	24.20	71	46.205	306	47.01	183	47.876	276	8.19	160
29.8	45.814	457	54.35	111	3.252	277	23.49	40	46.511	332	45.18	129	48.152	298	6.59	110
März 10.8	46.271	474	53.24	90	3.529	287	23.09	6	46.843	350	43.89	68	48.450	313	5.49	55
20.8	46.745	483	52.34	67	3.816	295	23.03	29	47.193	362	43.21	6	48.763	322	4.94	1
30.8	47.228	487	51.67	42	4.111	298	23.32	62	47.555	363	43.15	55	49.085	326	4.95	57
Apr. 9.7	47.715	484	51.25	18	4.409	296	23.94	94	47.918	359	43.70	114	49.411	323	5.52	110
19.7	48.199	473	51.07	7	4.705	290	24.88	122	48.277	345	44.84	169	49.734	314	6.62	159
29.7	48.672	453	51.14	33	4.995	280	26.10	144	48.622	325	46.53	217	50.048	298	8.21	203
Mai 9.7	49.125	428	51.47	58	5.275	263	27.54	163	48.947	296	48.70	257	50.346	277	10.24	238
19.6	49.553	392	52.05	82	5.538	242	29.17	174	49.243	261	51.27	290	50.623	248	12.62	267
29.6	49.945	348	52.87	105	5.780	216	30.91	182	49.504	219	54.17	312	50.871	214	15.29	286
Juni 8.6	50.293	297	53.92	124	5.996	183	32.73	182	49.723	173	57.29	327	51.085	176	18.15	298
18.5	50.590	238	55.16	142	6.179	148	34.55	179	49.896	122	60.56	332	51.261	132	21.13	302
28.5	50.828	175	56.58	154	6.327	109	36.34	170	50.018	68	63.88	329	51.393	86	24.15	297
Juli 8.5	51.003	106	58.12	161	6.436	67	38.04	159	50.086	13	67.17	317	51.479	39	27.12	285
18.5	51.109	37	59.73	164	6.503	24	39.63	144	50.099	41	70.34	299	51.518	10	29.97	268
28.4	51.146	33	61.37	159	6.527	19	41.07	127	50.058	95	73.33	274	51.508	58	32.65	245
Aug. 7.4	51.113	100	62.96	150	6.508	59	42.34	108	49.963	144	76.07	244	51.450	102	35.10	217
17.4	51.013	160	64.46	133	6.449	95	43.42	88	49.819	188	78.51	208	51.348	142	37.27	184
27.3	50.853	212	65.79	111	6.354	126	44.30	67	49.631	226	80.59	168	51.206	176	39.11	148
Sept. 6.3	50.641	252	66.90	83	6.228	150	44.97	47	49.405	254	82.27	125	51.030	203	40.59	110
16.3	50.389	278	67.73	51	6.078	165	45.44	25	49.151	274	83.52	79	50.827	219	41.69	69
26.3	50.111	291	68.24	17	5.913	172	45.69	4	48.877	282	84.31	32	50.608	228	42.38	26
Okt. 6.2	49.820	286	68.41	20	5.741	168	45.73	16	48.595	280	84.63	18	50.380	226	42.64	17
16.2	49.534	266	68.21	57	5.573	155	45.57	38	48.315	267	84.45	67	50.154	213	42.47	60
26.2	49.268	231	67.64	91	5.418	133	45.19	59	48.048	243	83.78	115	49.941	191	41.87	103
Nov. 5.2	49.037	181	66.73	124	5.285	104	44.60	78	47.805	208	82.63	163	49.750	161	40.84	145
15.1	48.856	123	65.49	149	5.181	68	43.82	98	47.597	167	81.00	206	49.589	123	39.39	183
25.1	48.733	56	64.00	172	5.113	28	42.84	115	47.430	119	78.94	245	49.466	81	37.56	217
Dez. 5.1	48.677	15	62.28	187	5.085	14	41.69	130	47.311	64	76.49	276	49.385	34	35.39	246
15.0	48.692	87	60.41	196	5.099	56	40.39	141	47.247	9	73.73	300	49.351	15	32.93	267
25.0	48.779	156	58.45	199	5.155	98	38.98	147	47.238	47	70.73	314	49.366	63	30.26	279
35.0	48.935		56.46		5.253		37.51		47.285		67.59		49.429		27.47	
Mittl. Ort	44.699		58.54		2.619		36.00		46.760		65.26		48.059		24.99	
sec δ, tg δ	1.664		−1.329		1.003		+0.072		1.386		+0.960		1.187		+0.639	

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Mittlere Zeit Greenw.	716) ζ Aquilae AR.		716) ζ Aquilae Dekl.		717) λ Aquilae AR.		717) λ Aquilae Dekl.		718) α Coron. austr. AR.		718) α Coron. austr. Dekl.		720) π Sagittarii AR.		720) π Sagittarii Dekl.	
	$19^h\ 1^m$		$+13^\circ\ 44'$		$19^h\ 1^m$		$-5^\circ\ 0'$		$19^h\ 3^m$		$-38^\circ\ 2'$		$19^h\ 4^m$		$-21^\circ\ 9'$	
Jan. 1.0	32.267	106	11.18	199	46.987	122	39.25	94	44.963	155	17.48	114	45.688	134	35.24	8
11.0	32.373	144	9.19	195	47.109	159	40.19	91	45.118	201	16.34	112	45.822	173	35.16	10
21.0	32.517	178	7.24	184	47.268	190	41.10	83	45.319	242	15.22	110	45.995	206	35.06	12
30.9	32.695	209	5.40	164	47.458	218	41.93	72	45.561	277	14.12	105	46.201	236	34.94	16
Feb. 9.9	32.904	234	3.76	139	47.676	242	42.65	56	45.838	307	13.07	100	46.437	262	34.78	22
19.9	33.138	255	2.37	104	47.918	261	43.21	36	46.145	331	12.07	94	46.699	281	34.56	30
29.9	33.393	273	1.33	67	48.179	277	43.57	12	46.476	350	11.13	88	46.980	298	34.26	40
März 10.8	33.666	286	0.66	25	48.456	289	43.69	14	46.826	365	10.25	81	47.278	310	33.86	49
20.8	33.952	294	0.41	18	48.745	297	43.55	39	47.191	376	9.44	73	47.588	320	33.37	58
30.8	34.246	300	0.59	60	49.042	301	43.16	64	47.567	381	8.71	63	47.908	325	32.79	67
Apr. 9.7	34.546	299	1.19	100	49.343	302	42.52	87	47.948	381	8.08	53	48.233	326	32.12	73
19.7	34.845	294	2.19	137	49.645	299	41.65	107	48.329	376	7.55	40	48.559	322	31.39	76
29.7	35.139	283	3.56	167	49.944	289	40.58	122	48.705	366	7.15	26	48.881	314	30.63	78
Mai 9.7	35.422	268	5.23	193	50.233	275	39.36	133	49.071	348	6.89	11	49.195	299	29.85	76
19.6	35.690	246	7.16	211	50.508	255	38.03	140	49.419	323	6.78	6	49.494	280	29.09	71
29.6	35.936	218	9.27	224	50.763	230	36.63	141	49.742	293	6.84	23	49.774	253	28.38	63
Juni 8.6	36.154	186	11.51	228	50.993	200	35.22	139	50.035	255	7.07	39	50.027	221	27.75	54
18.6	36.340	150	13.79	228	51.193	163	33.83	133	50.290	210	7.46	55	50.248	183	27.21	43
28.5	36.490	109	16.07	222	51.356	125	32.50	123	50.500	162	8.01	68	50.431	142	26.78	31
Juli 8.5	36.599	67	18.29	210	51.481	83	31.27	112	50.662	109	8.69	80	50.573	97	26.47	19
18.5	36.666	23	20.39	194	51.564	39	30.15	99	50.771	55	9.49	87	50.670	51	26.28	8
28.4	36.689	20	22.33	175	51.603	4	29.16	83	50.826	0	10.36	91	50.721	4	26.20	2
Aug. 7.4	36.669	62	24.08	152	51.599	46	28.33	69	50.826	53	11.27	90	50.725	41	26.22	10
17.4	36.607	99	25.60	127	51.553	84	27.64	53	50.773	102	12.17	85	50.684	83	26.32	15
27.4	36.508	131	26.87	101	51.469	116	27.11	39	50.671	144	13.02	76	50.601	119	26.47	18
Sept. 6.3	36.377	156	27.88	73	51.353	142	26.72	25	50.527	177	13.78	61	50.482	146	26.65	19
16.3	36.221	173	28.61	44	51.211	159	26.47	11	50.350	200	14.39	44	50.336	167	26.84	17
26.3	36.048	181	29.05	15	51.052	167	26.36	1	50.150	212	14.83	24	50.169	175	27.01	14
Okt. 6.3	35.867	179	29.20	15	50.885	165	26.37	13	49.938	209	15.07	2	49.994	173	27.15	9
16.2	35.688	168	29.05	44	50.720	153	26.50	25	49.729	196	15.09	21	49.821	162	27.24	5
26.2	35.520	148	28.61	74	50.567	133	26.75	37	49.533	170	14.88	42	49.659	140	27.29	0
Nov. 5.2	35.372	119	27.87	102	50.434	103	27.12	49	49.363	134	14.46	63	49.519	108	27.29	5
15.1	35.253	86	26.85	128	50.331	69	27.61	60	49.229	90	13.83	80	49.411	71	27.24	7
25.1	35.167	46	25.57	152	50.262	29	28.21	70	49.139	40	13.03	94	49.340	29	27.17	9
Dez. 5.1	35.121	5	24.05	172	50.233	12	28.91	80	49.099	14	12.09	104	49.311	16	27.08	9
15.1	35.116	38	22.33	187	50.245	55	29.71	88	49.113	68	11.05	111	49.327	61	26.99	9
25.0	35.154	79	20.46	196	50.300	96	30.59	91	49.181	121	9.94	114	49.388	105	26.90	10
35.0	35.233		18.50		50.396		31.50		49.302		8.80		49.493		26.80	
Mittl. Ort	32.943		15.74		47.483		33.93		45.510		11.17		46.142		29.36	
sec δ, tg δ	1.029		+0.244		1.004		−0.088		1.270		−0.782		1.072		−0.387	

Mittlere Zeit Greenw.	723) δ Draconis				724) ϑ Lyrae				725) ω Aquilae				726) κ Cygni			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$19^h\ 12^m$		$+67°\ 30'$		$19^h\ 13^m$		$+37°\ 58'$		$19^h\ 13^m$		$+11°\ 26'$		$19^h\ 15^m$		$+53°\ 12'$	
Jan. 1.0	$28^s.58$	2	$48''.48$	341	$25^s.887$	67	$57''.91$	295	$51^s.777$	97	$30''.98$	183	$7^s.707$	34	$45''.34$	329
11.0	28.56	8	45.07	345	25.954	116	54.96	294	51.874	133	29.15	180	7.741	100	42.05	332
21.0	28.64	19	41.62	334	26.070	161	52.02	282	52.007	168	27.35	170	7.841	164	38.73	319
30.9	28.83	30	38.28	310	26.231	203	49.20	259	52.175	198	25.65	152	8.005	224	35.54	296
Feb. 9.9	29.13	38	35.18	275	26.434	240	46.61	226	52.373	224	24.13	128	8.229	278	32.58	261
19.9	29.51	46	32.43	229	26.674	274	44.35	182	52.597	247	22.85	96	8.507	325	29.97	215
29.9	29.97	53	30.14	173	26.948	299	42.53	132	52.844	265	21.89	61	8.832	363	27.82	161
März 10.8	30.50	57	28.41	112	27.247	320	41.21	76	53.109	281	21.28	22	9.195	392	26.21	100
20.8	31.07	60	27.29	47	27.567	334	40.45	17	53.390	291	21.06	19	9.587	412	25.21	37
30.8	31.67	62	26.82	19	27.901	342	40.28	41	53.681	298	21.25	60	9.999	421	24.84	28
Apr. 9.7	32.29	61	27.01	85	28.243	342	40.69	98	53.979	300	21.85	98	10.420	420	25.12	91
19.7	32.90	58	27.86	146	28.585	334	41.67	151	54.279	297	22.83	132	10.840	408	26.03	150
29.7	33.48	54	29.32	202	28.919	321	43.18	199	54.576	288	24.15	162	11.248	386	27.53	204
Mai 9.7	34.02	48	31.34	251	29.240	299	45.17	240	54.864	275	25.77	186	11.634	355	29.57	251
19.6	34.50	42	33.85	291	29.539	271	47.57	272	55.139	254	27.63	205	11.989	314	32.08	289
29.6	34.92	34	36.76	322	29.810	235	50.29	296	55.393	229	29.68	216	12.303	265	34.97	318
Juni 8.6	35.26	24	39.98	344	30.045	196	53.25	312	55.622	198	31.84	221	12.568	211	38.15	339
18.6	35.50	15	43.42	357	30.241	150	56.37	319	55.820	162	34.05	220	12.779	150	41.54	349
28.5	35.65	5	46.99	361	30.391	101	59.56	319	55.982	123	36.25	215	12.929	87	45.03	352
Juli 8.5	35.70	4	50.60	356	30.492	50	62.75	310	56.105	80	38.40	203	13.016	22	48.55	345
18.5	35.66	15	54.16	342	30.542	2	65.85	294	56.185	37	40.43	188	13.038	45	52.00	331
28.4	35.51	24	57.58	322	30.540	53	68.79	272	56.222	7	42.31	169	12.993	108	55.31	310
Aug. 7.4	35.27	32	60.80	293	30.487	101	71.51	246	56.215	49	44.00	148	12.885	168	58.41	281
17.4	34.95	41	63.73	260	30.386	145	73.97	213	56.166	87	45.48	124	12.717	222	61.22	247
27.4	34.54	48	66.33	220	30.241	183	76.10	176	56.079	121	46.72	99	12.495	269	63.69	208
Sept. 6.3	34.06	52	68.53	176	30.058	212	77.86	137	55.958	147	47.71	73	12.226	307	65.77	165
16.3	33.54	57	70.29	128	29.846	235	79.23	94	55.811	166	48.44	46	11.919	334	67.42	118
26.3	32.97	59	71.57	77	29.611	246	80.17	50	55.645	176	48.90	19	11.585	350	68.60	68
Okt. 6.3	32.38	60	72.34	23	29.365	247	80.67	3	55.469	175	49.09	9	11.235	353	69.28	17
16.2	31.78	59	72.57	32	29.118	238	80.70	43	55.294	166	49.00	36	10.882	344	69.45	37
26.2	31.19	56	72.25	87	28.880	219	80.27	89	55.128	149	48.64	63	10.538	324	69.08	89
Nov. 5.2	30.63	52	71.38	141	28.661	191	79.38	135	54.979	122	48.01	90	10.214	291	68.19	141
15.1	30.11	45	69.97	192	28.470	155	78.03	177	54.857	89	47.11	115	9.923	248	66.78	190
25.1	29.66	38	68.05	240	28.315	112	76.26	216	54.768	53	45.96	137	9.675	197	64.88	235
Dez. 5.1	29.28	29	65.65	279	28.203	66	74.10	248	54.715	12	44.59	156	9.478	138	62.53	272
15.1	28.99	19	62.86	312	28.137	17	71.62	274	54.703	29	43.03	171	9.340	75	59.81	303
25.0	28.80	9	59.74	333	28.120	34	68.88	289	54.732	69	41.32	179	9.265	8	56.78	322
35.0	28.71		56.41		28.154		65.99		54.801		39.53		9.257		53.56	
Mittl. Ort	32.36		49.46		27.121		60.37		52.415		35.06		9.730		46.75	
sec δ, tg δ	2.615		+2.416		1.269		+0.781		1.020		+0.202		1.670		+1.337	

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Mittlere Zeit Greenw.	729) τ Draconis AR.		729) τ Draconis Dekl.		728) α Sagittarii AR.		728) α Sagittarii Dekl.		730) δ Aquilae AR.		730) δ Aquilae Dekl.		732) β Cygni AR.		732) β Cygni Dekl.	
	19h 17m		+73° 11′		19h 18m		−40° 46′		19h 21m		+2° 56′		19h 27m		+27° 46′	
	s		″		s		″		s		″		s		″	
Jan. 1.0	5.25	9	59.44	338	3.542	140	36.71	134	15.259	97	42.69	133	19.083	66	54.88	254
11.0	5.16	6	56.06	343	3.682	188	35.37	136	15.356	134	41.36	131	19.149	108	52.34	254
21.0	5.22	20	52.63	334	3.870	232	34.01	133	15.490	166	40.05	123	19.257	147	49.80	244
30.9	5.42	34	49.29	313	4.102	269	32.68	130	15.656	195	38.82	108	19.404	184	47.36	225
Feb. 9.9	5.76	46	46.16	280	4.371	303	31.38	125	15.851	222	37.74	88	19.588	217	45.11	195
19.9	6.22	57	43.36	235	4.674	330	30.13	118	16.073	244	36.86	62	19.805	245	43.16	158
29.9	6.79	66	41.01	181	5.004	352	28.95	111	16.317	262	36.24	33	20.050	271	41.58	113
März 10.8	7.45	73	39.20	122	5.356	371	27.84	101	16.579	278	35.91	1	20.321	290	40.45	64
20.8	8.18	77	37.98	56	5.727	384	26.83	91	16.857	289	35.90	33	20.611	305	39.81	11
30.8	8.95	78	37.42	9	6.111	392	25.92	79	17.146	297	36.23	65	20.916	314	39.70	41
Apr. 9.7	9.73	78	37.51	75	6.503	395	25.13	66	17.443	300	36.88	95	21.230	319	40.11	92
19.7	10.51	75	38.26	136	6.898	393	24.47	50	17.743	299	37.83	123	21.549	315	41.03	141
29.7	11.26	69	39.62	192	7.291	384	23.97	33	18.042	293	39.06	146	21.864	307	42.44	182
Mai 9.7	11.95	62	41.54	242	7.675	368	23.64	15	18.335	280	40.52	164	22.171	292	44.26	219
19.6	12.57	52	43.96	284	8.043	345	23.49	5	18.615	262	42.16	176	22.463	269	46.45	248
29.6	13.09	42	46.80	316	8.388	314	23.54	25	18.877	239	43.92	183	22.732	241	48.93	269
Juni 8.6	13.51	29	49.96	340	8.702	277	23.79	44	19.116	209	45.75	185	22.973	207	51.62	283
18.6	13.80	17	53.36	355	8.979	233	24.23	63	19.325	175	47.60	181	23.180	168	54.45	289
28.5	13.97	5	56.91	359	9.212	182	24.86	78	19.500	137	49.41	173	23.348	124	57.34	287
Juli 8.5	14.02	9	60.50	356	9.394	128	25.64	92	19.637	95	51.14	162	23.472	79	60.21	280
18.5	13.93	22	64.06	345	9.522	71	26.56	102	19.732	51	52.76	147	23.551	31	63.01	265
28.4	13.71	34	67.51	325	9.593	14	27.58	106	19.783	7	54.23	130	23.582	17	65.66	246
Aug. 7.4	13.37	45	70.76	300	9.607	42	28.64	107	19.790	34	55.53	111	23.565	61	68.12	220
17.4	12.92	56	73.76	266	9.565	95	29.71	103	19.756	74	56.64	92	23.504	104	70.32	193
27.4	12.36	64	76.42	229	9.470	140	30.74	93	19.682	108	57.56	71	23.400	140	72.25	160
Sept. 6.3	11.72	71	78.71	185	9.330	177	31.67	78	19.574	135	58.27	51	23.260	170	73.85	125
16.3	11.01	77	80.56	139	9.153	204	32.45	59	19.439	155	58.78	31	23.090	192	75.10	89
26.3	10.24	81	81.95	89	8.949	219	33.04	36	19.284	166	59.09	10	22.898	204	75.99	49
Okt. 6.3	9.43	82	82.84	35	8.730	220	33.40	13	19.118	167	59.19	9	22.694	207	76.48	10
16.2	8.61	80	83.19	20	8.510	210	33.53	13	18.951	158	59.10	29	22.487	201	76.58	31
26.2	7.81	78	82.99	75	8.300	186	33.40	39	18.793	142	58.81	48	22.286	185	76.27	71
Nov. 5.2	7.03	72	82.24	130	8.114	152	33.01	63	18.651	115	58.33	67	22.101	160	75.56	110
15.1	6.31	64	80.94	181	7.962	108	32.38	84	18.536	85	57.66	84	21.941	129	74.46	147
25.1	5.67	56	79.13	230	7.854	59	31.54	102	18.451	48	56.82	101	21.812	92	72.99	182
Dez. 5.1	5.11	44	76.83	271	7.795	5	30.52	117	18.403	9	55.81	114	21.720	50	71.17	210
15.1	4.67	31	74.12	305	7.790	49	29.35	126	18.394	31	54.67	125	21.670	8	69.07	233
25.0	4.36	17	71.07	328	7.839	104	28.09	133	18.425	71	53.42	131	21.662	37	66.74	248
35.0	4.19		67.79		7.943		26.76		18.496		52.11		21.699		64.26	
Mittl. Ort	10.57		59.64		4.093		29.95		15.796		47.04		20.005		56.98	
sec δ, tg δ	3.460		+3.312		1.321		−0.862		1.001		+0.051		1.130		+0.527	

Mittlere Zeit Greenw.	733) ι Cygni AR.		733) ι Cygni Dekl.		736) *h* Sagittarii AR.		736) *h* Sagittarii Dekl.	
	19h 27m		+51° 32′		19h 31m		−25° 4′	
Jan. 1.0	33.419	20	60.71	322	35.403	108	18.08	40
11.0	33.439	83	57.49	326	35.511	149	17.68	44
21.0	33.522	145	54.23	317	35.660	185	17.24	48
30.9	33.667	202	51.06	297	35.845	216	16.76	53
Feb. 9.9	33.869	256	48.09	263	36.061	245	16.23	58
19.9	34.125	302	45.46	221	36.306	269	15.65	64
29.9	34.427	342	43.25	168	36.575	290	15.01	71
März 10.8	34.769	374	41.57	111	36.865	307	14.30	78
20.8	35.143	395	40.46	47	37.172	320	13.52	83
30.8	35.538	408	39.99	17	37.492	331	12.69	88
Apr. 9.8	35.946	410	40.16	79	37.823	336	11.81	90
19.7	36.356	402	40.95	139	38.159	336	10.91	90
29.7	36.758	385	42.34	194	38.495	333	10.01	87
Mai 9.7	37.143	358	44.28	241	38.828	321	9.14	81
19.7	37.501	321	46.69	280	39.149	304	8.33	72
29.6	37.822	277	49.49	312	39.453	280	7.61	60
Juni 8.6	38.099	226	52.61	334	39.733	250	7.01	47
18.6	38.325	169	55.95	347	39.983	214	6.54	33
28.5	38.494	107	59.42	351	40.197	172	6.21	17
Juli 8.5	38.601	45	62.93	347	40.369	126	6.04	3
18.5	38.646	19	66.40	335	40.495	79	6.01	11
28.5	38.627	82	69.75	315	40.574	29	6.12	22
Aug. 7.4	38.545	141	72.90	288	40.603	19	6.34	31
17.4	38.404	195	75.78	257	40.584	64	6.65	37
27.4	38.209	243	78.35	219	40.520	104	7.02	40
Sept. 6.3	37.966	282	80.54	177	40.416	136	7.42	39
16.3	37.684	310	82.31	132	40.280	161	7.81	36
26.3	37.374	328	83.63	82	40.119	175	8.17	29
Okt. 6.3	37.046	335	84.45	32	39.944	179	8.46	22
16.2	36.711	328	84.77	20	39.765	171	8.68	12
26.2	36.383	311	84.57	74	39.594	154	8.80	1
Nov. 5.2	36.072	282	83.83	125	39.440	126	8.81	8
15.2	35.790	244	82.58	175	39.314	93	8.73	17
25.1	35.546	196	80.83	219	39.221	52	8.56	24
Dez. 5.1	35.350	143	78.64	260	39.169	9	8.32	30
15.1	35.207	83	76.04	291	39.160	35	8.02	35
25.0	35.124	20	73.13	313	39.195	79	7.67	39
35.0	35.104		70.00		39.274		7.28	
Mittl. Ort	35.315		60.99		35.819		11.89	
sec δ, tg δ	1.608		+1.259		1.104		−0.468	

Mittlere Zeit Greenw.	738) ϑ Cygni AR.		738) ϑ Cygni Dekl.		741) γ Aquilae AR.		741) γ Aquilae Dekl.	
	19h 34m		+50° 1′		19h 42m		+10° 24′	
Jan. 1.0	9.537	15	33.77	316	15.379	70	25.11	167
11.0	9.552	75	30.61	321	15.449	107	23.44	167
21.0	9.627	135	27.40	314	15.556	141	21.77	159
30.9	9.762	191	24.26	295	15.697	172	20.18	143
Feb. 9.9	9.953	242	21.31	263	15.869	201	18.75	121
19.9	10.195	289	18.68	221	16.070	226	17.54	93
29.9	10.484	328	16.47	171	16.296	248	16.61	59
März 10.8	10.812	359	14.76	113	16.544	268	16.02	22
20.8	11.171	383	13.63	51	16.812	282	15.80	18
30.8	11.554	396	13.12	12	17.094	294	15.98	57
Apr. 9.8	11.950	401	13.24	74	17.388	301	16.55	94
19.7	12.351	395	13.98	134	17.689	302	17.49	128
29.7	12.746	381	15.32	188	17.991	298	18.77	159
Mai 9.7	13.127	355	17.20	236	18.289	289	20.36	183
19.7	13.482	322	19.56	276	18.578	273	22.19	203
29.6	13.804	281	22.32	308	18.851	249	24.22	214
Juni 8.6	14.085	231	25.40	331	19.100	222	26.36	221
18.6	14.316	178	28.71	344	19.322	188	28.57	222
28.5	14.494	119	32.15	350	19.510	150	30.79	216
Juli 8.5	14.613	57	35.65	347	19.660	108	32.95	206
18.5	14.670	4	39.12	335	19.768	64	35.01	192
28.5	14.666	66	42.47	316	19.832	20	36.93	174
Aug. 7.4	14.600	124	45.63	291	19.852	24	38.67	154
17.4	14.476	178	48.54	260	19.828	64	40.21	131
27.4	14.298	225	51.14	224	19.764	101	41.52	107
Sept. 6.3	14.073	264	53.38	182	19.663	130	42.59	81
16.3	13.809	293	55.20	138	19.533	153	43.40	55
26.3	13.516	312	56.58	90	19.380	166	43.95	29
Okt. 6.3	13.204	320	57.48	39	19.214	171	44.24	3
16.2	12.884	314	57.87	13	19.043	167	44.27	24
26.2	12.570	299	57.74	65	18.876	153	44.03	49
Nov. 5.2	12.271	273	57.09	116	18.723	131	43.54	75
15.2	11.998	236	55.93	166	18.592	103	42.79	99
25.1	11.762	192	54.27	212	18.489	70	41.80	120
Dez. 5.1	11.570	140	52.15	251	18.419	34	40.60	140
15.1	11.430	84	49.64	284	18.385	6	39.20	155
25.0	11.346	24	46.80	307	18.391	44	37.65	164
35.0	11.322		43.73		18.435		36.01	
Mittl. Ort	11.326		33.51		15.970		27.95	
sec δ, tg δ	1.556		+1.193		1.017		+0.184	

Mittlere Zeit Greenw.	742) δ Cygni				743) δ Sagittae				745) α Aquilae*)				747) ε Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	19h 42m		+44° 55′		19h 43m		+18° 19′		19h 46m		+8° 38′		19h 48m		+70° 2′	
	s		″		s		″		s		″		s		″	
Jan. 1.0	19.495	22	30.99	302	37.822	61	32.62	206	40.525	71	41.43	155	23.56	14	77.45	325
11.0	19.513	72	27.97	308	37.883	98	30.56	207	40.596	107	39.88	155	23.42	1	74.20	338
21.0	19.585	124	24.89	302	37.981	135	28.49	199	40.703	141	38.33	146	23.41	10	70.82	337
31.0	19.709	175	21.87	284	38.116	169	26.50	183	40.844	173	36.87	131	33.51	22	67.45	323
Feb. 9.9	19.884	221	19.03	255	38.285	199	24.67	158	41.017	200	35.56	109	23.73	34	64.22	298
19.9	20.105	263	16.48	214	38.484	226	23.09	126	41.217	226	34.47	82	24.07	43	61.24	259
29.9	20.368	300	14.34	167	38.710	250	21.83	88	41.443	248	33.65	50	24.50	52	58.65	211
März 10.9	20.668	329	12.67	111	38.960	271	20.95	45	41.691	268	33.15	13	25.02	59	56.54	154
20.8	20.997	352	11.56	51	39.231	287	20.50	0	41.959	282	33.02	24	25.61	64	55.00	93
30.8	21.349	366	11.05	10	39.518	299	20.50	46	42.241	294	33.26	61	26.25	68	54.07	28
Apr. 9.8	21.715	373	11.15	70	39.817	305	20.96	90	42.535	301	33.87	98	26.93	68	53.79	38
19.7	22.088	371	11.85	128	40.122	308	21.86	131	42.836	303	34.85	130	27.61	67	54.17	101
29.7	22.459	360	13.13	182	40.430	302	23.17	167	43.139	300	36.15	159	28.28	64	55.18	161
Mai 9.7	22.819	341	14.95	228	40.732	292	24.84	199	43.439	289	37.74	182	28.92	59	56.79	215
19.7	23.160	313	17.23	267	41.024	274	26.83	222	43.728	275	39.56	200	29.51	53	58.94	261
29.6	23.473	277	19.90	298	41.298	251	29.05	241	44.003	253	41.56	211	30.04	45	61.55	300
Juni 8.6	23.750	234	22.88	321	41.549	221	31.46	252	44.256	224	43.67	216	30.49	35	64.55	330
18.6	23.984	186	26.09	335	41.770	186	33.98	255	44.480	192	45.83	215	30.84	25	67.85	350
28.6	24.170	133	29.44	340	41.956	146	36.53	253	44.672	153	47.98	210	31.09	14	71.35	363
Juli 8.5	24.303	77	32.84	337	42.102	104	39.06	244	44.825	112	50.08	199	31.23	4	74.98	366
18.5	24.380	20	36.21	327	42.206	59	41.50	231	44.937	68	52.07	185	31.27	8	78.64	360
28.5	24.400	37	39.48	309	42.265	12	43.81	213	45.005	23	53.92	166	31.19	18	82.24	348
Aug. 7.4	24.363	92	42.57	284	42.277	31	45.94	190	45.028	19	55.58	147	31.01	29	85.72	326
17.4	24.271	142	45.41	255	42.246	73	47.84	166	45.009	60	57.05	124	30.72	39	88.98	299
27.4	24.129	187	47.96	220	42.173	109	49.50	138	44.949	97	58.29	100	30.33	47	91.97	265
Sept. 6.4	23.942	224	50.16	181	42.064	140	50.88	108	44.852	126	59.29	76	29.86	53	94.62	226
16.3	23.718	253	51.97	137	41.924	163	51.96	77	44.726	149	60.05	51	29.33	60	96.88	182
26.3	23.465	271	53.34	91	41.761	177	52.73	45	44.577	163	60.56	26	28.73	63	98.70	133
Okt. 6.3	23.194	279	54.25	44	41.584	183	53.18	13	44.414	167	60.82	2	28.10	66	100.03	81
16.2	22.915	276	54.69	7	41.401	178	53.31	21	44.247	164	60.84	24	27.44	67	100.84	27
26.2	22.639	262	54.62	57	41.223	165	53.10	54	44.083	150	60.60	47	26.77	65	101.11	30
Nov. 5.2	22.377	239	54.05	107	41.058	144	52.56	86	43.933	128	60.13	71	26.12	61	100.81	86
15.2	22.138	207	52.98	155	40.914	116	51.70	117	43.805	101	59.42	93	25.51	57	99.95	141
25.1	21.931	166	51.43	198	40.798	82	50.53	144	43.704	68	58.49	113	24.94	50	98.54	194
Dez. 5.1	21.765	121	49.45	238	40.716	45	49.09	169	43.636	32	57.36	130	24.44	41	96.60	240
15.1	21.644	70	47.07	270	40.671	7	47.40	189	43.604	7	56.06	143	24.03	31	94.20	280
25.1	21.574	17	44.37	292	40.664	34	45.51	201	43.611	45	54.63	153	23.72	21	91.40	311
35.0	21.557		41.45		40.698		43.50		43.656		53.10		23.51		88.29	
Mittl. Ort	20.990		30.39		38.529		34.56		41.090		44.38		27.85		74.29	
sec δ, tg δ	1.412		+0.997		1.053		+0.331		1.011		+0.152		2.931		+2.756	

*) Die jährliche Parallaxe (siehe Erläuterungen) ist bereits berücksichtigt.

Mittlere Zeit Greenw.	748) ε Pavonis AR.		Dekl.		749) β Aquilae AR.		Dekl.	
	$19^h\ 50^m$		$-73°\ 7'$		$19^h\ 51^m$		$+6°\ 11'$	
Jan. 1.0	$51^s.80$	11	$70''.27$	305	$10^s.703$	65	$43''.19$	143
11.0	51.91	25	67.22	310	10.768	101	41.76	142
21.0	52.16	37	64.12	308	10.869	135	40.34	135
31.0	52.53	49	61.04	298	11.004	166	38.99	121
Feb. 9.9	53.02	60	58.06	280	11.170	195	37.78	100
19.9	53.62	69	55.26	258	11.365	220	36.78	75
29.9	54.31	77	52.68	230	11.585	242	36.03	44
März 10.9	55.08	83	50.38	199	11.827	262	35.59	10
20.8	55.91	88	48.39	162	12.089	279	35.49	— 25
30.8	56.79	91	46.77	124	12.368	291	35.74	61
Apr. 9.8	57.70	93	45.53	84	12.659	300	36.35	94
19.7	58.63	93	44.69	41	12.959	303	37.29	126
29.7	59.56	91	44.28	0	13.262	300	38.55	152
Mai 9.7	60.47	88	44.28	44	13.562	292	40.07	173
19.7	61.35	82	44.72	85	13.854	279	41.80	189
29.6	62.17	75	45.57	124	14.133	257	43.69	200
Juni 8.6	62.92	67	46.81	160	14.390	230	45.69	203
18.6	63.59	55	48.41	191	14.620	198	47.72	203
28.6	64.14	44	50.32	217	14.818	161	49.75	197
Juli 8.5	64.58	31	52.49	236	14.979	119	51.72	186
18.5	64.89	17	54.85	249	15.098	76	53.58	171
28.5	65.06	2	57.34	252	15.174	32	55.29	154
Aug. 7.4	65.08	— 11	59.86	246	15.206	— 12	56.83	134
17.4	64.97	25	62.32	233	15.194	54	58.17	114
27.4	64.72	38	64.65	208	15.140	90	59.31	91
Sept. 6.4	64.34	48	66.73	177	15.050	121	60.22	68
16.3	63.86	56	68.50	137	14.929	144	60.90	45
26.3	63.30	63	69.87	90	14.785	159	61.35	22
Okt. 6.3	62.67	65	70.77	40	14.626	166	61.57	0
16.3	62.02	66	71.17	— 13	14.460	162	61.57	23
26.2	61.36	62	71.04	68	14.298	150	61.34	45
Nov. 5.2	60.74	57	70.36	121	14.148	129	60.89	66
15.2	60.17	49	69.15	169	14.019	103	60.23	86
25.1	59.68	37	67.46	213	13.916	71	59.37	104
Dez. 5.1	59.31	25	65.33	250	13.845	35	58.33	120
15.1	59.06	12	62.83	278	13.810	— 2	57.13	133
25.1	58.94	— 1	60.05	298	13.812	40	55.80	140
35.0	58.95		57.07		13.852		54.40	
Mittl. Ort	53.83		61.34		11.228		46.11	
sec δ, tg δ	3.447		−3.298		1.006		+0.108	

Mittlere Zeit Greenw.	750) ψ Cygni AR.		Dekl.		751) ϑ^1 Sagittarii AR.		Dekl.	
	$19^h\ 53^m$		$+52°\ 12'$		$19^h\ 54^m$		$-35°\ 30'$	
Jan. 1.0	$25^s.612$	20	$57''.95$	311	$15^s.854$	89	$23''.12$	110
11.0	25.592	— 43	54.84	321	15.943	133	22.02	116
21.0	25.635	105	51.63	318	16.076	175	20.86	121
31.0	25.740	166	48.45	304	16.251	212	19.65	125
Feb. 9.9	25.906	223	45.41	276	16.463	245	18.40	126
19.9	26.129	274	42.65	237	16.708	275	17.14	127
29.9	26.403	321	40.28	190	16.983	301	15.87	127
März 10.9	26.724	358	38.38	135	17.284	324	14.60	125
20.8	27.082	387	37.03	75	17.608	342	13.35	122
30.8	27.469	407	36.28	11	17.950	357	12.13	115
Apr. 9.8	27.876	417	36.17	— 52	18.307	367	10.98	108
19.7	28.293	417	36.69	113	18.674	372	9.90	97
29.7	28.710	405	37.82	169	19.046	370	8.93	83
Mai 9.7	29.115	383	39.51	220	19.416	362	8.10	67
19.7	29.498	352	41.71	264	19.778	346	7.43	50
29.6	29.850	311	44.35	299	20.124	323	6.93	29
Juni 8.6	30.161	263	47.34	326	20.447	292	6.64	8
18.6	30.424	208	50.60	344	20.739	255	6.56	— 12
28.6	30.632	147	54.04	353	20.994	210	6.68	33
Juli 8.5	30.779	84	57.57	354	21.204	162	7.01	51
18.5	30.863	19	61.11	346	21.366	108	7.52	66
28.5	30.882	— 46	64.57	331	21.474	54	8.18	79
Aug. 7.4	30.836	107	67.88	309	21.528	0	8.97	88
17.4	30.729	166	70.97	280	21.528	52	9.85	92
27.4	30.563	217	73.77	247	21.476	99	10.77	90
Sept. 6.4	30.346	261	76.24	207	21.377	139	11.67	83
16.3	30.085	295	78.31	163	21.238	170	12.50	74
26.3	29.790	319	79.94	117	21.068	191	13.24	58
Okt. 6.3	29.471	331	81.11	66	20.877	199	13.82	40
16.3	29.140	331	81.77	14	20.678	197	14.22	19
26.2	28.809	321	81.91	— 39	20.481	182	14.41	— 2
Nov. 5.2	28.488	298	81.52	92	20.299	158	14.39	24
15.2	28.190	266	80.60	144	20.141	124	14.15	45
25.1	27.924	223	79.16	193	20.017	83	13.70	63
Dez. 5.1	27.701	175	77.23	235	19.934	38	13.07	80
15.1	27.526	119	74.88	272	19.896	— 9	12.27	93
25.1	27.407	59	72.16	299	19.905	56	11.34	105
35.0	27.348		69.17		19.961		10.29	
Mittl. Ort	27.510		55.64		16.260		15.86	
sec δ, tg δ	1.632		+1.290		1.228		−0.714	

Mittlere Zeit Greenw.	752) γ Sagittae AR.		752) γ Sagittae Dekl.		754) δ Pavonis AR.		754) δ Pavonis Dekl.		756) ϑ Aquilae AR.		756) ϑ Aquilae Dekl.		757) o¹ seq. Cygni AR.		757) o¹ seq. Cygni Dekl.	
	19ʰ 55ᵐ		+19° 15′		20ʰ 0ᵐ		−66° 23′		20ʰ 6ᵐ		−1° 4′		20ʰ 10ᵐ		+46° 28′	
Jan. 1.0	0.567	48	46.48	206	28.61	9	60.55	274	57.857	57	20.51	97	57.684	23	72.92	291
11.0	0.615	87	44.42	208	28.70	19	57.81	282	57.914	91	21.48	94	57.661	32	70.01	302
21.0	0.702	123	42.34	201	28.89	27	54.99	283	58.005	125	22.42	87	57.693	85	66.99	303
31.0	0.825	157	40.33	186	29.16	36	52.16	277	58.130	155	23.29	75	57.778	138	63.96	291
Feb. 9.9	0.982	188	38.47	163	29.52	44	49.39	265	58.285	184	24.04	57	57.916	188	61.05	268
19.9	1.170	218	36.84	131	29.96	50	46.74	248	58.469	210	24.61	36	58.104	235	58.37	232
29.9	1.388	243	35.53	93	30.46	56	44.26	226	58.679	234	24.97	10	58.339	278	56.05	189
März 10.9	1.631	265	34.60	51	31.02	61	42.00	199	58.913	255	25.07	17	58.617	315	54.16	136
20.8	1.896	284	34.09	6	31.63	64	40.01	169	59.168	273	24.90	47	58.932	344	52.80	79
30.8	2.180	297	34.03	40	32.27	68	38.32	136	59.441	288	24.43	75	59.276	366	52.01	19
Apr. 9.8	2.477	307	34.43	86	32.95	69	36.96	100	59.729	299	23.68	102	59.642	381	51.82	42
19.8	2.784	309	35.29	127	33.64	69	35.96	63	60.028	306	22.66	127	60.023	384	52.24	101
29.7	3.093	307	36.56	165	34.33	69	35.33	24	60.334	305	21.39	146	60.407	380	53.25	156
Mai 9.7	3.400	298	38.21	198	35.02	67	35.09	15	60.639	301	19.93	162	60.787	366	54.81	207
19.7	3.698	282	40.19	223	35.69	63	35.24	54	60.940	289	18.31	173	61.153	343	56.88	250
29.6	3.980	259	42.42	242	36.32	59	35.78	93	61.229	270	16.58	178	61.496	310	59.38	286
Juni 8.6	4.239	231	44.84	255	36.91	53	36.71	128	61.499	246	14.80	178	61.806	271	62.24	313
18.6	4.470	196	47.39	260	37.44	45	37.99	159	61.745	216	13.02	173	62.077	224	65.37	333
28.6	4.666	157	49.99	259	37.89	37	39.58	188	61.961	179	11.29	165	62.301	172	68.70	343
Juli 8.5	4.823	114	52.58	251	38.26	27	41.46	208	62.140	139	9.64	152	62.473	115	72.13	345
18.5	4.937	69	55.09	239	38.53	17	43.54	224	62.279	96	8.12	138	62.588	57	75.58	340
28.5	5.006	23	57.48	221	38.70	7	45.78	231	62.375	51	6.74	120	62.645	3	78.98	326
Aug. 7.5	5.029	22	59.69	200	38.77	4	48.09	230	62.426	7	5.54	101	62.642	59	82.24	307
17.4	5.007	64	61.69	175	38.73	15	50.39	221	62.433	35	4.53	83	62.583	114	85.31	281
27.4	4.943	102	63.44	147	38.58	23	52.60	203	62.398	74	3.70	63	62.469	163	88.12	249
Sept. 6.4	4.841	134	64.91	118	38.35	31	54.63	177	62.324	107	3.07	45	62.306	205	90.61	212
16.3	4.707	158	66.09	86	38.04	38	56.40	142	62.217	132	2.62	27	62.101	238	92.73	172
26.3	4.549	174	66.95	54	37.66	42	57.82	102	62.085	150	2.35	10	61.863	263	94.45	127
Okt. 6.3	4.375	182	67.49	21	37.24	46	58.84	57	61.935	158	2.25	7	61.600	277	95.72	79
16.3	4.193	179	67.70	14	36.78	45	59.41	9	61.777	157	2.32	22	61.323	281	96.51	29
26.2	4.014	168	67.56	47	36.33	43	59.50	42	61.620	147	2.54	36	61.042	273	96.80	21
Nov. 5.2	3.846	148	67.09	79	35.90	40	59.08	91	61.473	129	2.90	50	60.769	256	96.59	72
15.2	3.698	123	66.30	112	35.50	33	58.17	138	61.344	105	3.40	62	60.513	230	95.87	123
25.2	3.575	91	65.18	140	35.17	26	56.79	178	61.239	74	4.02	74	60.283	195	94.64	170
Dez. 5.1	3.484	55	63.78	166	34.91	17	55.01	215	61.165	41	4.76	84	60.088	154	92.94	213
15.1	3.429	17	62.12	186	34.74	8	52.86	244	61.124	5	5.60	91	59.934	108	90.81	250
25.1	3.412	22	60.26	200	34.66	3	50.42	265	61.119	32	6.51	96	59.826	56	88.31	277
35.0	3.434		58.26		34.69		47.77		61.151		7.47		59.770		85.54	
Mittl. Ort	1.270		47.65		29.84		51.30		58.280		17.23		59.191		69.54	
sec δ, tg δ	1.059		+0.349		2.498		−2.289		1.000		−0.019		1.452		+1.053	

Mittlere Zeit Greenw.	759) ϰ Cephei AR.		759) ϰ Cephei Dekl.		760) 24 Vulpecul. AR.		760) 24 Vulpecul. Dekl.		761) α^2 Capricorni AR.		761) α^2 Capricorni Dekl.		764) α Pavonis AR.		764) α Pavonis Dekl.	
	$20^h\ 11^m$		$+77°\ 27'$		$20^h\ 13^m$		$+24°\ 24'$		$20^h\ 13^m$		$-12°\ 48'$		$20^h\ 18^m$		$-57°\ 0'$	
Jan. 1.1	37.30	38	38.51	305	10.652	24	42.47	221	23.388	58	26.28	26	59.976	51	28.15	230
11.0	36.92	19	35.46	325	10.676	62	40.26	226	23.446	93	26.54	22	60.027	119	25.85	243
21.0	36.73	0	32.21	333	10.738	101	38.00	222	23.539	127	26.76	13	60.146	183	23.42	250
31.0	36.73	19	28.88	327	10.839	137	35.78	209	23.666	159	26.89	2	60.329	244	20.92	251
Feb. 10.0	36.92	38	25.61	309	10.976	172	33.69	186	23.825	188	26.91	— 11	60.573	300	18.41	246
19.9	37.30	55	22.52	278	11.148	204	31.83	156	24.013	214	26.80	26	60.873	350	15.95	238
29.9	37.85	71	19.74	236	11.352	233	30.27	117	24.227	239	26.54	44	61.223	394	13.57	224
März 10.9	38.56	83	17.38	186	11.585	259	29.10	74	24.466	260	26.10	63	61.617	434	11.33	207
20.8	39.39	93	15.52	127	11.844	282	28.36	25	24.726	279	25.47	82	62.051	466	9.26	186
30.8	40.32	100	14.25	65	12.126	299	28.11	— 23	25.005	296	24.65	98	62.517	492	7.40	161
Apr. 9.8	41.32	102	13.60	1	12.425	311	28.34	71	25.301	307	23.67	114	63.009	511	5.79	134
19.8	42.34	103	13.59	— 63	12.736	318	29.05	118	25.608	315	22.53	127	63.520	522	4.45	104
29.7	43.37	98	14.22	124	13.054	317	30.23	161	25.923	317	21.26	135	64.042	524	3.41	71
Mai 9.7	44.35	93	15.46	179	13.371	310	31.84	197	26.240	313	19.91	141	64.566	516	2.70	36
19.7	45.28	83	17.25	231	13.681	296	33.81	228	26.553	303	18.50	140	65.082	497	2.34	1
29.7	46.11	71	19.56	274	13.977	275	36.09	253	26.856	286	17.10	136	65.579	467	2.33	— 34
Juni 8.6	46.82	57	22.30	309	14.252	246	38.62	269	27.142	262	15.74	129	66.046	427	2.67	68
18.6	47.39	43	25.39	336	14.498	213	41.31	278	27.404	231	14.45	118	66.473	375	3.35	101
28.6	47.82	26	28.75	355	14.711	172	44.09	281	27.635	195	13.27	104	66.848	315	4.36	130
Juli 8.5	48.08	9	32.30	364	14.883	129	46.90	277	27.830	154	12.23	88	67.163	246	5.66	155
18.5	48.17	— 8	35.94	365	15.012	83	49.67	266	27.984	110	11.35	71	67.409	171	7.21	175
28.5	48.09	24	39.59	359	15.095	36	52.33	251	28.094	64	10.64	54	67.580	93	8.96	188
Aug. 7.5	47.85	41	43.18	344	15.131	— 10	54.84	230	28.158	18	10.10	37	67.673	14	10.84	194
17.4	47.44	56	46.62	322	15.121	55	57.14	205	28.176	— 26	9.73	22	67.687	— 64	12.78	193
27.4	46.88	69	49.84	295	15.066	96	59.19	177	28.150	67	9.51	8	67.623	136	14.71	183
Sept. 6.4	46.19	81	52.79	260	14.970	129	60.96	146	28.083	102	9.43	— 3	67.487	200	16.54	167
16.4	45.38	92	55.39	219	14.841	157	62.42	113	27.981	129	9.46	13	67.287	252	18.21	142
26.3	44.46	99	57.58	175	14.684	177	63.55	78	27.852	148	9.59	20	67.035	292	19.63	111
Okt. 6.3	43.47	104	59.33	126	14.507	186	64.33	41	27.704	159	9.79	25	66.743	314	20.74	74
16.3	42.43	107	60.59	72	14.321	187	64.74	3	27.545	158	10.04	28	66.429	321	21.48	34
26.2	41.36	107	61.31	17	14.134	180	64.77	— 33	27.387	149	10.32	31	66.108	311	21.82	— 8
Nov. 5.2	40.29	103	61.48	— 41	13.954	163	64.44	71	27.238	131	10.63	31	65.797	284	21.74	52
15.2	39.26	98	61.07	97	13.791	141	63.73	107	27.107	107	10.94	33	65.513	245	21.22	94
25.2	38.28	90	60.10	153	13.650	111	62.66	140	27.000	76	11.27	32	65.268	194	20.28	133
Dez. 5.1	37.38	78	58.57	204	13.539	77	61.26	170	26.924	41	11.59	33	65.074	132	18.95	167
15.1	36.60	64	56.53	249	13.462	41	59.56	195	26.883	5	11.92	31	64.942	67	17.28	196
25.1	35.96	48	54.04	287	13.421	3	57.61	213	26.878	— 32	12.23	28	64.875	— 3	15.32	219
35.1	35.48		51.17		13.418		55.48		26.910		12.51		64.878		13.13	
Mittl. Ort	44.43		32.33		11.416		41.81		23.724		21.52		60.638		18.60	
sec δ, tg δ	4.605		+4.495		1.098		+0.454		1.026		—0.227		1.836		—1.540	

Mittlere Zeit Greenw.	765) γ Cygni AR.		Dekl.		767) ϑ Cephei AR.		Dekl.		768) ε Delphini AR.		Dekl.		769) α Indi AR.		Dekl.	
	$20^h\ 19^m$		+39° 58′		$20^h\ 28^m$		+62° 42′		$20^h\ 29^m$		+11° 0′		$20^h\ 31^m$		−47° 34′	
Jan. 1.1	11.594 s	14	77.27″	271	7.71 s	14	48.09″	299	11.503 s	25	60.66″	154	39.412 s	38	76.27″	180
11.0	11.580	34	74.56	281	7.57	6	45.10	320	11.528	60	59.12	155	39.450	91	74.47	194
21.0	11.614	81	71.75	282	7.51	3	41.90	328	11.588	94	57.57	151	39.541	142	72.53	204
31.0	11.695	128	68.93	272	7.54	11	38.62	323	11.682	127	56.06	139	39.683	189	70.49	210
Feb. 10.0	11.823	171	66.21	248	7.65	20	35.39	306	11.809	158	54.67	119	39.872	234	68.39	212
19.9	11.994	214	63.73	216	7.85	28	32.33	276	11.967	187	53.48	95	40.106	275	66.27	210
29.9	12.208	251	61.57	175	8.13	35	29.57	235	12.154	214	52.53	63	40.381	312	64.17	205
März 10.9	12.459	285	59.82	125	8.48	41	27.22	185	12.368	240	51.90	27	40.693	346	62.12	196
20.8	12.744	313	58.57	71	8.89	46	25.37	127	12.608	262	51.63	10	41.039	374	60.16	184
30.8	13.057	336	57.86	13	9.35	50	24.10	65	12.870	280	51.73	48	41.413	399	58.32	169
Apr. 9.8	13.393	350	57.73	45	9.85	52	23.45	2	13.150	295	52.21	87	41.812	418	56.63	150
19.8	13.743	356	58.18	100	10.37	54	23.43	63	13.445	305	53.08	122	42.230	431	55.13	128
29.7	14.099	355	59.18	154	10.91	53	24.06	124	13.750	308	54.30	154	42.661	436	53.85	103
Mai 9.7	14.454	346	60.72	200	11.44	51	25.30	180	14.058	306	55.84	181	43.097	434	52.82	75
19.7	14.800	328	62.72	242	11.95	47	27.10	232	14.364	296	57.65	203	43.531	422	52.07	46
29.7	15.128	301	65.14	276	12.42	42	29.42	275	14.660	279	59.68	218	43.953	401	51.61	16
Juni 8.6	15.429	266	67.90	301	12.84	37	32.17	311	14.939	257	61.86	227	44.354	371	51.45	16
18.6	15.695	226	70.91	320	13.21	30	35.28	338	15.196	226	64.13	231	44.725	331	51.61	46
28.6	15.921	180	74.11	328	13.51	22	38.66	358	15.422	192	66.44	227	45.056	284	52.07	75
Juli 8.6	16.101	129	77.39	331	13.73	14	42.24	367	15.614	151	68.71	220	45.340	228	52.82	102
18.5	16.230	76	80.70	324	13.87	6	45.91	369	15.765	109	70.91	208	45.568	168	53.84	123
28.5	16.306	22	83.94	311	13.93	2	49.60	362	15.874	63	72.99	191	45.736	104	55.07	140
Aug. 7.5	16.328	31	87.05	292	13.91	11	53.22	348	15.937	19	74.90	171	45.840	38	56.47	152
17.4	16.297	82	89.97	268	13.80	18	56.70	326	15.956	24	76.61	150	45.878	25	57.99	157
27.4	16.215	127	92.65	236	13.62	26	59.96	298	15.932	64	78.11	126	45.853	86	59.56	154
Sept. 6.4	16.088	168	95.01	202	13.36	32	62.94	263	15.868	99	79.37	100	45.767	140	61.10	147
16.4	15.920	199	97.03	163	13.04	37	65.57	224	15.769	126	80.37	75	45.627	185	62.57	130
26.3	15.721	222	98.66	121	12.67	41	67.81	178	15.643	147	81.12	48	45.442	218	63.87	108
Okt. 6.3	15.499	237	99.87	77	12.26	44	69.59	129	15.496	158	81.60	23	45.224	238	64.95	81
16.3	15.262	240	100.64	30	11.82	46	70.88	76	15.338	162	81.83	5	44.986	246	65.76	49
26.2	15.022	235	100.94	18	11.36	45	71.64	21	15.176	156	81.78	30	44.740	240	66.25	15
Nov. 5.2	14.787	219	100.76	65	10.91	44	71.85	36	15.020	142	81.48	56	44.500	221	66.40	20
15.2	14.568	196	100.11	113	10.47	41	71.49	92	14.878	122	80.92	80	44.279	191	66.20	55
25.2	14.372	166	98.98	157	10.06	37	70.57	147	14.756	95	80.12	102	44.088	151	65.65	89
Dez. 5.1	14.206	128	97.41	197	9.69	32	69.10	199	14.661	66	79.10	121	43.937	104	64.76	118
15.1	14.078	88	95.44	231	9.37	26	67.11	244	14.595	33	77.89	138	43.833	53	63.58	146
25.1	13.990	43	93.13	259	9.11	19	64.67	280	14.562	2	76.51	149	43.780	0	62.12	168
35.1	13.947		90.54		8.92		61.87		14.564		75.02		43.780		60.44	
Mittl. Ort	12.787		73.98		10.48		41.26		11.998		61.20		39.806		67.10	
sec δ, tg δ	1.305		+0.839		2.181		+1.938		1.019		+0.195		1.483		−1.094	

Mittlere Zeit Greenw.	770) 73 Draconis AR.		Dekl.		771) β Delphini AR.		Dekl.		773) υ Capricorni AR.		Dekl.		774) α Delphini AR.		Dekl.	
	$20^h\ 32^m$		+74° 39′		$20^h\ 33^m$		+14° 17′		$20^h\ 35^m$		−18° 25′		$20^h\ 35^m$		+15° 36′	
Jan. 1.1	32.35 (s)	35	69.26 (″)	292	36.071 (s)	18	68.14 (″)	168	15.945 (s)	39	72.09 (″)	10	43.646 (s)	15	54.49 (″)	173
11.0	32.00	20	66.34	318	36.089	53	66.46	171	15.984	74	71.99	18	43.661	50	52.76	177
21.0	31.80	5	63.16	330	36.142	88	64.75	168	16.058	108	71.81	29	43.711	84	50.99	173
31.0	31.75	10	59.86	329	36.230	120	63.07	155	16.166	141	71.52	39	43.795	118	49.26	162
Feb. 10.0	31.85	26	56.57	316	36.350	153	61.52	137	16.307	172	71.13	52	43.913	150	47.64	143
19.9	32.11	40	53.41	290	36.503	183	60.15	110	16.479	200	70.61	65	44.063	181	46.21	117
29.9	32.51	54	50.51	253	36.686	212	59.05	79	16.679	227	69.96	80	44.244	210	45.04	85
März 10.9	33.05	65	47.98	204	36.898	238	58.26	41	16.906	252	69.16	95	44.454	237	44.19	47
20.9	33.70	74	45.94	149	37.136	261	57.85	2	17.158	275	68.21	108	44.691	261	43.72	6
30.8	34.44	81	44.45	88	37.397	281	57.83	40	17.433	293	67.13	121	44.952	281	43.66	35
Apr. 9.8	35.25	85	43.57	25	37.678	296	58.23	80	17.726	310	65.92	131	45.233	296	44.01	77
19.8	36.10	86	43.32	40	37.974	306	59.03	118	18.036	321	64.61	137	45.529	307	44.78	117
29.7	36.96	85	43.72	101	38.280	311	60.21	154	18.357	327	63.24	142	45.836	312	45.95	153
Mai 9.7	37.81	81	44.73	161	38.591	308	61.75	183	18.684	326	61.82	140	46.148	310	47.48	184
19.7	38.62	75	46.34	213	38.899	299	63.58	208	19.010	319	60.42	135	46.458	300	49.32	209
29.7	39.37	66	48.47	259	39.198	283	65.66	225	19.329	305	59.07	127	46.758	284	51.41	229
Juni 8.6	40.03	55	51.06	299	39.481	259	67.91	238	19.634	283	57.80	114	47.042	261	53.70	242
18.6	40.58	44	54.05	329	39.740	230	70.29	244	19.917	254	56.66	100	47.303	231	56.12	248
28.6	41.02	31	57.34	352	39.970	194	72.73	242	20.171	220	55.66	82	47.534	196	58.60	248
Juli 8.6	41.33	18	60.86	366	40.164	154	75.15	236	20.391	179	54.84	63	47.730	155	61.08	243
18.5	41.51	3	64.52	371	40.318	111	77.51	225	20.570	135	54.21	44	47.885	112	63.51	231
28.5	41.54	10	68.23	368	40.429	66	79.76	209	20.705	88	53.77	25	47.997	67	65.82	217
Aug. 7.5	41.44	24	71.91	357	40.495	21	81.85	190	20.793	40	53.52	7	48.064	22	67.99	197
17.4	41.20	37	75.48	340	40.516	23	83.75	167	20.833	6	53.45	8	48.086	22	69.96	174
27.4	40.83	48	78.88	314	40.493	63	85.42	143	20.827	50	53.53	21	48.064	63	71.70	150
Sept. 6.4	40.35	60	82.02	282	40.430	99	86.85	116	20.777	88	53.74	31	48.001	98	73.20	122
16.4	39.75	68	84.84	245	40.331	127	88.01	88	20.689	119	54.05	37	47.903	127	74.42	95
26.3	39.07	75	87.29	201	40.204	147	88.89	60	20.570	142	54.42	41	47.776	148	75.37	65
Okt. 6.3	38.32	81	89.30	154	40.057	161	89.49	32	20.428	156	54.83	41	47.628	162	76.02	35
16.3	37.51	84	90.84	101	39.896	164	89.81	2	20.272	160	55.24	39	47.466	165	76.37	6
26.3	36.67	85	91.85	45	39.732	159	89.83	27	20.112	155	55.63	35	47.301	161	76.43	24
Nov. 5.2	35.82	84	92.30	12	39.573	147	89.56	55	19.957	141	55.98	29	47.140	149	76.19	54
15.2	34.98	80	92.18	71	39.426	127	89.01	82	19.816	118	56.27	23	46.991	130	75.65	83
25.2	34.18	74	91.47	127	39.299	102	88.19	107	19.698	91	56.50	16	46.861	104	74.82	108
Dez. 5.1	33.44	66	90.20	182	39.197	72	87.12	129	19.607	58	56.66	10	46.757	76	73.74	133
15.1	32.78	55	88.38	230	39.125	40	85.83	149	19.549	24	56.76	2	46.681	43	72.41	152
25.1	32.23	43	86.08	272	39.085	5	84.34	162	19.525	13	56.78	5	46.638	9	70.89	167
35.1	31.80		83.36		39.080		82.72		19.538		56.73		46.629		69.22	
Mittl. Ort	37.86		60.96		36.599		67.89		16.199		66.74		44.188		53.90	
sec δ, tg δ	3.782		+3.647		1.032		+0.255		1.054		−0.333		1.038		+0.279	

Mittlere Zeit Greenw.	775) β Pavonis AR.	Diff.	775) β Pavonis Dekl.	Diff.	777) α Cygni AR.	Diff.	777) α Cygni Dekl.	Diff.	780) ε Cygni AR.	Diff.	780) ε Cygni Dekl.	Diff.	781) ε Aquarii AR.	Diff.	781) ε Aquarii Dekl.	Diff.
	$20^h\ 37^m$		−66° 30′		$20^h\ 38^m$		+44° 58′		$20^h\ 42^m$		+33° 39′		$20^h\ 43^m$		−9° 47′	
Jan. 1.1	23.31	2	32.91	272	32.736	50	52.21	270	47.814	21	22.22	237	7.539	28	78.06	39
11.1	23.29	8	30.19	289	32.686	1	49.51	287	47.793	19	19.85	250	7.567	62	78.45	33
21.0	23.37	18	27.30	299	32.685	50	46.64	292	47.812	61	17.35	253	7.629	94	78.78	24
31.0	23.55	26	24.31	302	32.735	102	43.72	286	47.873	103	14.82	245	7.723	126	79.02	12
Feb. 10.0	23.81	34	21.29	296	32.837	151	40.86	268	47.976	142	12.37	226	7.849	155	79.14	3
19.9	24.15	41	18.33	286	32.988	199	38.18	239	48.118	182	10.11	198	8.004	184	79.11	20
29.9	24.56	48	15.47	270	33.187	245	35.79	199	48.300	219	8.13	162	8.188	211	78.91	40
März 10.9	25.04	54	12.77	248	33.432	284	33.80	152	48.519	252	6.51	117	8.399	237	78.51	61
20.9	25.58	58	10.29	222	33.716	319	32.28	98	48.771	282	5.34	67	8.636	260	77.90	83
30.8	26.16	63	8.07	192	34.035	348	31.30	41	49.053	306	4.67	15	8.896	279	77.07	103
Apr. 9.8	26.79	66	6.15	158	34.383	367	30.89	19	49.359	326	4.52	39	9.175	296	76.04	123
19.8	27.45	68	4.57	120	34.750	379	31.08	78	49.685	337	4.91	91	9.471	308	74.81	138
29.8	28.13	68	3.37	81	35.129	381	31.86	133	50.022	342	5.82	142	9.779	315	73.43	150
Mai 9.7	28.81	68	2.56	39	35.510	373	33.19	185	50.364	339	7.24	186	10.094	316	71.93	158
19.7	29.49	66	2.17	3	35.883	358	35.04	230	50.703	326	9.10	226	10.410	310	70.35	160
29.7	30.15	62	2.20	45	36.241	331	37.34	268	51.029	307	11.36	258	10.720	297	68.75	160
Juni 8.6	30.77	57	2.65	85	36.572	297	40.02	300	51.336	280	13.94	284	11.017	276	67.15	154
18.6	31.34	51	3.50	124	36.869	255	43.02	322	51.616	245	16.78	301	11.293	250	65.61	143
28.6	31.85	43	4.74	158	37.124	206	46.24	337	51.861	204	19.79	311	11.543	216	64.18	131
Juli 8.6	32.28	34	6.32	187	37.330	154	49.61	343	52.065	159	22.90	313	11.759	178	62.87	114
18.5	32.62	24	8.19	210	37.484	98	53.04	341	52.224	111	26.03	309	11.937	135	61.73	97
28.5	32.86	14	10.29	226	37.582	40	56.45	332	52.335	60	29.12	298	12.072	90	60.76	77
Aug. 7.5	33.00	4	12.55	233	37.622	17	59.77	317	52.395	9	32.10	281	12.162	44	59.99	59
17.5	33.04	7	14.88	234	37.605	72	62.94	294	52.404	39	34.91	258	12.206	0	59.40	41
27.4	32.97	17	17.22	223	37.533	123	65.88	266	52.365	83	37.49	231	12.206	42	58.99	23
Sept. 6.4	32.80	27	19.45	204	37.410	166	68.54	233	52.282	124	39.80	199	12.164	80	58.76	8
16.4	32.53	33	21.49	176	37.244	204	70.87	194	52.158	156	41.79	164	12.084	110	58.68	5
26.3	32.20	40	23.25	141	37.040	232	72.81	153	52.002	181	43.43	127	11.974	132	58.73	16
Okt. 6.3	31.80	44	24.66	98	36.808	251	74.34	108	51.821	197	44.70	86	11.842	147	58.89	25
16.3	31.36	46	25.64	52	36.557	260	75.42	59	51.624	205	45.56	43	11.695	152	59.14	31
26.3	30.90	46	26.16	1	36.297	259	76.01	10	51.419	203	45.99	0	11.543	148	59.45	37
Nov. 5.2	30.44	43	26.17	51	36.038	248	76.11	41	51.216	193	45.99	43	11.395	135	59.82	40
15.2	30.01	39	25.66	101	35.790	228	75.70	91	51.023	174	45.56	87	11.260	116	60.22	42
25.2	29.62	33	24.65	147	35.562	201	74.79	139	50.849	150	44.69	128	11.144	92	60.64	44
Dez. 5.2	29.29	25	23.18	191	35.361	166	73.40	184	50.699	120	43.41	166	11.052	61	61.08	45
15.1	29.04	17	21.27	228	35.195	126	71.56	223	50.579	85	41.75	199	10.991	29	61.53	44
25.1	28.87	7	18.99	257	35.069	81	69.33	255	50.494	48	39.76	225	10.962	4	61.97	42
35.1	28.80		16.42		34.988		66.78		50.446		37.51		10.966		62.39	
Mittl. Ort	24.27		22.15		34.072		46.56		48.718		18.01		7.802		74.29	
sec δ, tg δ	2.508		−2.301		1.414		+0.999		1.201		+0.666		1.015		−0.173	

Mittlere Zeit Greenw.	783) η Cephei AR.		783) η Cephei Dekl.		784) λ Cygni AR.		784) λ Cygni Dekl.		785) β Indi AR.		785) β Indi Dekl.		786) 32 Vulpeculae AR.		786) 32 Vulpeculae Dekl.	
	$20^h\ 43^m$		$+61°\ 30'$		$20^h\ 44^m$		$+36°\ 10'$		$20^h\ 48^m$		$-58°\ 45'$		$20^h\ 50^m$		$+27°\ 44'$	
Jan. 1.1	32.47	15	52.08	285	7.180	30	58.08	245	14.656	8	89.58	234	58.047	17	18.84	214
11.1	32.32	8	49.23	309	7.150	13	55.63	259	14.648	61	87.24	252	58.030	20	16.70	225
21.0	32.24	0	46.14	320	7.163	55	53.04	263	14.709	129	84.72	266	58.050	58	14.45	227
31.0	32.24	9	42.94	319	7.218	99	50.41	255	14.838	193	82.06	271	58.108	95	12.18	219
Feb. 10.0	32.33	16	39.75	305	7.317	141	47.86	238	15.031	255	79.35	274	58.203	133	9.99	202
19.9	32.49	25	36.70	279	7.458	182	45.48	209	15.286	311	76.61	268	58.336	169	7.97	176
29.9	32.74	31	33.91	241	7.640	220	43.39	172	15.597	362	73.93	258	58.505	204	6.21	140
März 10.9	33.05	38	31.50	193	7.860	255	41.67	128	15.959	410	71.35	243	58.709	236	4.81	100
20.9	33.43	43	29.57	138	8.115	286	40.39	77	16.369	450	68.92	224	58.945	264	3.81	53
30.8	33.86	47	28.19	79	8.401	313	39.62	23	16.819	485	66.68	200	59.209	290	3.28	4
Apr. 9.8	34.33	51	27.40	14	8.714	331	39.39	32	17.304	513	64.68	173	59.499	308	3.24	46
19.8	34.84	51	27.26	48	9.045	344	39.71	86	17.817	532	62.95	142	59.807	323	3.70	94
29.8	35.35	52	27.74	110	9.389	348	40.57	137	18.349	542	61.53	107	60.130	328	4.64	141
Mai 9.7	35.87	50	28.84	167	9.737	345	41.94	184	18.891	541	60.46	71	60.458	328	6.05	182
19.7	36.37	48	30.51	221	10.082	333	43.78	225	19.432	530	59.75	33	60.786	318	7.87	217
29.7	36.85	44	32.72	265	10.415	312	46.03	260	19.962	507	59.42	6	61.104	303	10.04	247
Juni 8.6	37.29	38	35.37	304	10.727	283	48.63	286	20.469	471	59.48	44	61.407	278	12.51	269
18.6	37.67	32	38.41	333	11.010	248	51.49	305	20.940	424	59.92	82	61.685	247	15.20	284
28.6	37.99	25	41.74	355	11.258	207	54.54	317	21.364	366	60.74	116	61.932	209	18.04	292
Juli 8.6	38.24	17	45.29	368	11.465	160	57.71	320	21.730	299	61.90	147	62.141	168	20.96	293
18.5	38.41	10	48.97	372	11.625	110	60.91	317	22.029	223	63.37	172	62.309	122	23.89	287
28.5	38.51	1	52.69	368	11.735	58	64.08	306	22.252	143	65.09	192	62.431	73	26.76	276
Aug. 7.5	38.52	7	56.37	356	11.793	7	67.14	290	22.395	60	67.01	204	62.504	26	29.52	258
17.5	38.45	14	59.93	337	11.800	43	70.04	268	22.455	23	69.05	208	62.530	21	32.10	236
27.4	38.31	21	63.30	312	11.757	89	72.72	240	22.432	102	71.13	205	62.509	65	34.46	211
Sept. 6.4	38.10	28	66.42	279	11.668	130	75.12	208	22.330	173	73.18	192	62.444	103	36.57	181
16.4	37.82	33	69.21	241	11.538	163	77.20	173	22.157	236	75.10	171	62.341	136	38.38	148
26.3	37.49	37	71.62	197	11.375	190	78.93	134	21.921	284	76.81	142	62.205	160	39.86	113
Okt. 6.3	37.12	40	73.59	150	11.185	206	80.27	92	21.637	318	78.23	108	62.045	177	40.99	76
16.3	36.72	43	75.09	98	10.979	214	81.19	49	21.319	335	79.31	66	61.868	184	41.75	37
26.3	36.29	42	76.07	44	10.765	213	81.68	4	20.984	335	79.97	23	61.684	184	42.12	2
Nov. 5.2	35.87	42	76.51	13	10.552	203	81.72	42	20.649	318	80.20	22	61.500	174	42.10	41
15.2	35.45	40	76.38	70	10.349	186	81.30	86	20.331	286	79.98	69	61.326	158	41.69	79
25.2	35.05	36	75.68	126	10.163	160	80.44	130	20.045	242	79.29	112	61.168	136	40.90	117
Dez. 5.2	34.69	32	74.42	178	10.003	131	79.14	169	19.803	186	78.17	153	61.032	108	39.73	151
15.1	34.37	26	72.64	225	9.872	95	77.45	204	19.617	124	76.64	188	60.924	76	38.22	180
25.1	34.11	20	70.39	264	9.777	56	75.41	232	19.493	56	74.76	218	60.848	42	36.42	203
35.1	33.91		67.75		9.721		73.09		19.437		72.58		60.806		34.39	
Mittl. Ort	35.00		43.82		8.155		53.34		15.201		78.94		58.769		15.11	
sec δ, tg δ	2.096		+1.843		1.239		+0.731		1.929		−1.649		1.130		+0.526	

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Mittlere Zeit Greenw.	788) ν Cygni AR.	Δ	788) ν Cygni Dekl.	Δ	790) ζ Microscopii AR.	Δ	790) ζ Microscopii Dekl.	Δ	793) 61 Cygni pr.*) AR.	Δ	793) 61 Cygni pr.*) Dekl.	Δ	794) ν Aquarii AR.	Δ	794) ν Aquarii Dekl.	Δ
	20ʰ 54ᵐ		+40° 50′		20ʰ 57ᵐ		−38° 57′		21ʰ 3ᵐ		+38° 19′		21ʰ 5ᵐ		−11° 42′	
Jan. 1.1	1.354	53	41.61	251	35.930	11	45.68	127	6.850	40	75.00	231	1.039	9	48.61	25
11.1	1.301	8	39.10	268	35.941	53	44.41	145	6.810	—1	72.69	247	1.048	42	48.86	18
21.0	1.293	—37	36.42	275	35.994	96	42.96	159	6.811	44	70.22	255	1.090	73	49.04	7
31.0	1.330	84	33.67	270	36.090	136	41.37	171	6.855	88	67.67	250	1.163	104	49.11	—5
Feb. 10.0	1.414	130	30.97	256	36.226	174	39.66	179	6.943	133	65.17	236	1.267	135	49.06	20
19.9	1.544	175	28.41	229	36.400	212	37.87	186	7.076	176	62.81	211	1.402	165	48.86	38
29.9	1.719	218	26.12	193	36.612	247	36.01	189	7.252	217	60.70	175	1.567	193	48.48	57
März 10.9	1.937	258	24.19	149	36.859	278	34.12	189	7.469	256	58.95	132	1.760	221	47.91	77
20.9	2.195	292	22.70	97	37.137	309	32.23	187	7.725	291	57.63	83	1.981	246	47.14	97
30.8	2.487	322	21.73	43	37.446	334	30.36	181	8.016	320	56.80	30	2.227	270	46.17	116
Apr. 9.8	2.809	345	21.30	—14	37.780	357	28.55	172	8.336	343	56.50	—26	2.497	290	45.01	133
19.8	3.154	359	21.44	70	38.137	373	26.83	158	8.679	359	56.76	80	2.787	305	43.68	148
29.8	3.513	366	22.14	125	38.510	385	25.25	142	9.038	366	57.56	134	3.092	316	42.20	158
Mai 9.7	3.879	363	23.39	174	38.895	387	23.83	121	9.404	366	58.90	182	3.408	321	40.62	164
19.7	4.242	351	25.13	219	39.282	383	22.62	97	9.770	357	60.72	225	3.729	317	38.98	166
29.7	4.593	331	27.32	257	39.665	370	21.65	72	10.127	337	62.97	263	4.046	308	37.32	162
Juni 8.7	4.924	301	29.89	287	40.035	348	20.93	43	10.464	311	65.60	292	4.354	291	35.70	155
18.6	5.225	265	32.76	311	40.383	317	20.50	15	10.775	276	68.52	314	4.645	266	34.15	144
28.6	5.490	221	35.87	325	40.700	279	20.35	—15	11.051	235	71.66	328	4.911	235	32.71	129
Juli 8.6	5.711	173	39.12	332	40.979	233	20.50	42	11.286	188	74.94	335	5.146	198	31.42	111
18.5	5.884	120	42.44	332	41.212	182	20.92	67	11.474	138	78.29	334	5.344	157	30.31	91
28.5	6.004	67	45.76	324	41.394	126	21.59	90	11.612	86	81.63	326	5.501	112	29.40	72
Aug. 7.5	6.071	12	49.00	310	41.520	69	22.49	107	11.698	33	84.89	312	5.613	66	28.68	51
17.5	6.083	—41	52.10	288	41.589	13	23.56	120	11.731	—18	88.01	291	5.679	20	28.17	32
27.4	6.042	89	54.98	263	41.602	—43	24.76	127	11.713	66	90.92	265	5.699	—23	27.85	13
Sept. 6.4	5.953	133	57.61	232	41.559	91	26.03	127	11.647	109	93.57	235	5.676	61	27.72	—2
16.4	5.820	170	59.93	195	41.468	134	27.30	122	11.538	145	95.92	199	5.615	95	27.74	15
26.3	5.650	199	61.88	157	41.334	167	28.52	109	11.393	174	97.91	162	5.520	121	27.89	25
Okt. 6.3	5.451	218	63.45	113	41.167	189	29.61	93	11.219	194	99.53	120	5.399	137	28.14	34
16.3	5.233	230	64.58	68	40.978	200	30.54	70	11.025	205	100.73	76	5.262	147	28.48	38
26.3	5.003	231	65.26	21	40.778	200	31.24	45	10.820	208	101.49	31	5.115	146	28.86	42
Nov. 5.2	4.772	224	65.47	—27	40.578	188	31.69	17	10.612	200	101.80	—16	4.969	138	29.28	42
15.2	4.548	208	65.20	76	40.390	168	31.86	—11	10.412	187	101.64	62	4.831	122	29.70	43
25.2	4.340	184	64.44	121	40.222	138	31.75	40	10.225	164	101.02	106	4.709	101	30.13	41
Dez. 5.2	4.156	155	63.23	165	40.084	103	31.35	67	10.061	137	99.96	149	4.608	74	30.54	38
15.1	4.001	120	61.58	204	39.981	63	30.68	92	9.924	104	98.47	185	4.534	45	30.92	35
25.1	3.881	80	59.54	235	39.918	21	29.76	114	9.820	66	96.62	216	4.489	14	31.27	30
35.1	3.801		57.19		39.897		28.62		9.754		94.46		4.475		31.57	
Mittl. Ort	2.450		35.31		36.125		37.08		7.831		68.65		1.218		44.89	
sec δ, tg δ	1.322		+0.864		1.286		−0.809		1.275		+0.791		1.021		−0.207	

*) Die jährliche Parallaxe (siehe Erläuterungen) ist bereits berücksichtigt.

Mittlere Zeit Greenw.	795) Br. 2777				797) ζ Cygni				800) α Equulei				803) α Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$21^h\ 7^m$		$+77°\ 46'$		$21^h\ 9^m$		$+29°\ 52'$		$21^h\ 11^m$		$+4°\ 53'$		$21^h\ 16^m$		$+62°\ 13'$	
Jan. 1.1	$5^s.56$	58	$81''.73$	258	$20^s.924$	38	$59''.78$	210	$37^s.238$	5	$59''.67$	109	$32^s.16$	21	$57''.14$	258
11.1	4.98	42	79.15	293	20.886	2	57.68	225	37.233	25	58.58	111	31.95	14	54.56	290
21.1	4.56	24	76.22	315	20.884	35	55.43	230	37.258	57	57.47	105	31.81	6	51.66	309
31.0	4.32	4	73.07	326	20.919	74	53.13	225	37.315	88	56.42	95	31.75	2	48.57	317
Feb. 10.0	4.28	15	69.81	322	20.993	113	50.88	211	37.403	119	55.47	80	31.77	10	45.40	312
20.0	4.43	35	66.59	306	21.106	151	48.77	188	37.522	149	54.67	57	31.87	19	42.28	293
29.9	4.78	52	63.53	278	21.257	188	46.89	154	37.671	179	54.10	32	32.06	26	39.35	264
März 10.9	5.30	69	60.75	239	21.445	223	45.35	115	37.850	207	53.78	2	32.32	33	36.71	222
20.9	5.99	82	58.36	189	21.668	256	44.20	70	38.057	235	53.76	30	32.65	40	34.49	173
30.9	6.81	94	56.47	134	21.924	283	43.50	21	38.292	259	54.06	63	33.05	46	32.76	116
Apr. 9.8	7.75	101	55.13	73	22.207	307	43.29	30	38.551	280	54.69	95	33.51	49	31.60	56
19.8	8.76	105	54.40	10	22.514	324	43.59	79	38.831	297	55.64	125	34.00	52	31.04	6
29.8	9.81	107	54.30	52	22.838	333	44.38	127	39.128	307	56.89	152	34.52	54	31.10	68
Mai 9.8	10.88	104	54.82	113	23.171	336	45.65	171	39.435	312	58.41	175	35.06	53	31.78	128
19.7	11.92	98	55.95	169	23.507	330	47.36	209	39.747	310	60.16	192	35.59	52	33.06	183
29.7	12.90	89	57.64	221	23.837	316	49.45	241	40.057	300	62.08	204	36.11	48	34.89	233
Juni 8.7	13.79	79	59.85	266	24.153	294	51.86	267	40.357	282	64.12	211	36.59	44	37.22	276
18.6	14.58	66	62.51	304	24.447	264	54.53	284	40.639	259	66.23	211	37.03	38	39.98	311
28.6	15.24	51	65.55	334	24.711	228	57.37	296	40.898	228	68.34	206	37.41	32	43.09	339
Juli 8.6	15.75	35	68.89	356	24.939	187	60.33	300	41.126	192	70.40	198	37.73	24	46.48	358
18.6	16.10	18	72.45	369	25.126	141	63.33	296	41.318	152	72.38	185	37.97	17	50.06	370
28.5	16.28	2	76.14	375	25.267	93	66.29	288	41.470	109	74.23	168	38.14	8	53.76	372
Aug. 7.5	16.30	16	79.89	373	25.360	44	69.17	273	41.579	64	75.91	148	38.22	0	57.48	367
17.5	16.14	32	83.62	362	25.404	3	71.90	252	41.643	19	77.39	127	38.22	7	61.15	355
27.4	15.82	47	87.24	345	25.401	49	74.42	228	41.662	22	78.66	106	38.15	16	64.70	334
Sept. 6.4	15.35	61	90.69	320	25.352	89	76.70	199	41.640	59	79.72	82	37.99	22	68.04	307
16.4	14.74	74	93.89	288	25.263	123	78.69	167	41.581	91	80.54	60	37.77	28	71.11	273
26.4	14.00	85	96.77	250	25.140	151	80.36	133	41.490	117	81.14	38	37.49	33	73.84	236
Okt. 6.3	13.15	94	99.27	206	24.989	171	81.69	95	41.373	134	81.52	17	37.16	37	76.20	191
16.3	12.21	100	101.33	158	24.818	182	82.64	57	41.239	143	81.69	4	36.79	41	78.11	141
26.3	11.21	104	102.91	104	24.636	184	83.21	16	41.096	145	81.65	24	36.38	41	79.52	89
Nov. 5.3	10.17	105	103.95	47	24.452	179	83.37	24	40.951	138	81.41	42	35.97	42	80.41	33
15.2	9.12	103	104.42	12	24.273	166	83.13	65	40.813	124	80.99	59	35.55	41	80.74	25
25.2	8.09	99	104.30	72	24.107	147	82.48	104	40.689	106	80.40	75	35.14	39	80.49	83
Dez. 5.2	7.10	91	103.58	130	23.960	123	81.44	139	40.583	82	79.65	89	34.75	35	79.66	138
15.1	6.19	81	102.28	184	23.837	94	80.05	172	40.501	55	78.76	100	34.40	31	78.28	189
25.1	5.38	68	100.44	233	23.743	61	78.33	199	40.446	27	77.76	107	34.09	25	76.39	235
35.1	4.70		98.11		23.682		76.34		40.419		76.69		33.84		74.04	
Mittl. Ort	12.17		69.58		21.622		54.39		37.521		59.59		34.53		45.62	
sec δ, tg δ	4.727		+4.620		1.153		+0.575		1.004		+0.086		2.146		+1.899	

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Mittlere Zeit Greenw.	804) ι Pegasi AR.		804) ι Pegasi Dekl.		805) γ Pavonis AR.		805) γ Pavonis Dekl.		806) ζ Capricorni AR.		806) ζ Capricorni Dekl.		808) β Aquarii AR.		808) β Aquarii Dekl.	
	21h 18m		+19° 26′		21h 19m		−65° 44′		21h 21m		−22° 46′		21h 27m		−5° 56′	
	s		″		s		″		s		″		s		″	
Jan. 1.1	11.626	27	43.78	169	30.24	11	62.03	255	52.372	6	38.90	34	8.150	12	30.65	53
11.1	11.599	5	42.09	178	30.13	3	59.48	282	52.366	26	38.56	49	8.138	18	31.18	48
21.1	11.604	39	40.31	180	30.10	6	56.66	301	52.392	60	38.07	64	8.156	48	31.66	38
31.0	11.643	72	38.51	174	30.16	14	53.65	312	52.452	93	37.43	79	8.204	78	32.04	27
Feb. 10.0	11.715	107	36.77	159	30.30	23	50.53	318	52.545	125	36.64	93	8.282	109	32.31	10
20.0	11.822	140	35.18	136	30.53	30	47.35	316	52.670	157	35.71	108	8.391	138	32.41	9
29.9	11.962	174	33.82	107	30.83	36	44.19	308	52.827	187	34.63	122	8.529	169	32.32	30
März 10.9	12.136	206	32.75	71	31.19	44	41.11	293	53.014	219	33.41	136	8.698	198	32.02	54
20.9	12.342	236	32.04	32	31.63	50	38.18	272	53.233	247	32.05	148	8.896	226	31.48	79
30.9	12.578	264	31.72	11	32.13	55	35.46	247	53.480	273	30.57	157	9.122	252	30.69	103
Apr. 9.8	12.842	286	31.83	54	32.68	59	32.99	217	53.753	297	29.00	165	9.374	275	29.66	126
19.8	13.128	305	32.37	97	33.27	62	30.82	182	54.050	315	27.35	169	9.649	294	28.40	145
29.8	13.433	316	33.34	136	33.89	65	29.00	143	54.365	330	25.66	168	9.943	308	26.95	162
Mai 9.8	13.749	320	34.70	172	34.54	66	27.57	102	54.695	337	23.98	163	10.251	315	25.33	175
19.7	14.069	318	36.42	203	35.20	65	26.55	59	55.032	337	22.35	154	10.566	317	23.58	181
29.7	14.387	308	38.45	227	35.85	63	25.96	13	55.369	331	20.81	141	10.883	309	21.77	185
Juni 8.7	14.695	290	40.72	246	36.48	59	25.83	31	55.700	315	19.40	124	11.192	296	19.92	181
18.6	14.985	264	43.18	258	37.07	55	26.14	75	56.015	292	18.16	105	11.488	274	18.11	175
28.6	15.249	232	45.76	263	37.62	49	26.89	116	56.307	261	17.11	82	11.762	245	16.36	163
Juli 8.6	15.481	194	48.39	262	38.11	41	28.05	152	56.568	225	16.29	58	12.007	211	14.73	148
18.6	15.675	153	51.01	256	38.52	32	29.57	185	56.793	182	15.71	34	12.218	172	13.25	130
28.5	15.828	108	53.57	243	38.84	23	31.42	210	56.975	136	15.37	10	12.390	129	11.95	110
Aug. 7.5	15.936	62	56.00	227	39.07	12	33.52	228	57.111	87	15.27	12	12.519	84	10.85	89
17.5	15.998	16	58.27	207	39.19	2	35.80	237	57.198	39	15.39	31	12.603	39	9.96	68
27.4	16.014	26	60.34	183	39.21	8	38.17	237	57.237	8	15.70	48	12.642	3	9.28	47
Sept. 6.4	15.988	65	62.17	157	39.13	17	40.54	229	57.229	50	16.18	59	12.639	43	8.81	28
16.4	15.923	98	63.74	128	38.96	26	42.83	208	57.179	89	16.77	68	12.596	77	8.53	10
26.4	15.825	125	65.02	98	38.70	33	44.91	181	57.090	118	17.45	71	12.519	105	8.43	5
Okt. 6.3	15.700	144	66.00	68	38.37	39	46.72	145	56.972	140	18.16	69	12.414	124	8.48	18
16.3	15.556	155	66.68	35	37.98	43	48.17	101	56.832	152	18.85	65	12.290	136	8.66	30
26.3	15.401	158	67.03	3	37.55	44	49.18	53	56.680	155	19.50	57	12.154	139	8.96	38
Nov. 5.3	15.243	154	67.06	28	37.11	43	49.71	2	56.525	150	20.07	45	12.015	135	9.34	45
15.2	15.089	142	66.78	60	36.68	41	49.73	51	56.375	136	20.52	33	11.880	123	9.79	51
25.2	14.947	125	66.18	90	36.27	37	49.22	103	56.239	116	20.85	19	11.757	107	10.30	55
Dez. 5.2	14.822	102	65.28	118	35.90	31	48.19	151	56.123	91	21.04	4	11.650	85	10.85	57
15.1	14.720	77	64.10	141	35.59	24	46.68	195	56.032	62	21.08	10	11.565	60	11.42	58
25.1	14.643	47	62.69	161	35.35	17	44.73	233	55.970	30	20.98	26	11.505	32	12.00	56
35.1	14.596		61.08		35.18		42.40		55.940		20.72		11.473		12.56	
Mittl. Ort	12.077		40.09		30.80		49.92		52.443		33.11		8.279		28.72	
sec δ, tg δ	1.060		+0.353		2.434		−2.220		1.085		−0.420		1.005		−0.104	

Mittlere Zeit Greenw.	809) β Cephei AR.	Δ	809) β Cephei Dekl.	Δ	810) ν Octantis AR.	Δ	810) ν Octantis Dekl.	Δ	811) 74 Cygni AR.	Δ	811) 74 Cygni Dekl.	Δ	815) ε Pegasi AR.	Δ	815) ε Pegasi Dekl.	Δ
	$21^h 27^m$		$+70° 11'$		$21^h 32^m$		$-77° 45'$		$21^h 33^m$		$+40° 1'$		$21^h 40^m$		$+9° 29'$	
Jan. 1.1	$31^s.40$	36	$43''.96$	246	$9^s.37$	37	$63''.78$	290	$33^s.974$	88	$77''.61$	220	$3^s.398$	32	$23''.80$	121
11.1	31.04	26	41.50	282	9.00	20	60.88	321	33.886	49	75.41	243	3.366	3	22.59	124
21.1	30.78	16	38.68	308	8.80	3	57.67	341	33.837	8	72.98	256	3.363	26	21.35	123
31.0	30.62	5	35.60	321	8.77	13	54.26	355	33.829	36	70.42	259	3.389	57	20.12	115
Feb. 10.0	30.57	8	32.39	321	8.90	30	50.71	358	33.865	81	67.83	251	3.446	88	18.97	101
20.0	30.65	19	29.18	307	9.20	45	47.13	354	33.946	128	65.32	233	3.534	120	17.96	81
März 1.0	30.84	30	26.11	282	9.65	60	43.59	342	34.074	173	62.99	203	3.654	152	17.15	55
10.9	31.14	41	23.29	245	10.25	74	40.17	323	34.247	216	60.96	165	3.806	184	16.60	25
20.9	31.55	51	20.84	199	10.99	85	36.94	298	34.463	258	59.31	120	3.990	214	16.35	8
30.9	32.06	58	18.85	144	11.84	96	33.96	266	34.721	294	58.11	69	4.204	243	16.43	44
Apr. 9.8	32.64	64	17.41	85	12.80	104	31.30	229	35.015	324	57.42	16	4.447	269	16.87	78
19.8	33.28	68	16.56	23	13.84	111	29.01	188	35.339	348	57.26	39	4.716	289	17.65	113
29.8	33.96	70	16.33	39	14.95	116	27.13	143	35.687	362	57.65	92	5.005	305	18.78	144
Mai 9.8	34.66	70	16.72	101	16.11	117	25.70	95	36.049	369	58.57	144	5.310	313	20.22	171
19.7	35.36	68	17.73	158	17.28	117	24.75	45	36.418	366	60.01	190	5.623	316	21.93	195
29.7	36.04	63	19.31	211	18.45	114	24.30	5	36.784	353	61.91	230	5.939	310	23.88	211
Juni 8.7	36.67	58	21.42	259	19.59	108	24.35	55	37.137	332	64.21	265	6.249	297	25.99	222
18.7	37.25	50	24.01	298	20.67	99	24.90	103	37.469	301	66.86	292	6.546	276	28.21	228
28.6	37.75	42	26.99	329	21.66	88	25.93	148	37.770	264	69.78	312	6.822	247	30.49	227
Juli 8.6	38.17	32	30.28	354	22.54	74	27.41	189	38.034	219	72.90	324	7.069	214	32.76	223
18.6	38.49	22	33.82	370	23.28	59	29.30	222	38.253	171	76.14	329	7.283	176	34.99	211
28.5	38.71	11	37.52	377	23.87	41	31.52	250	38.424	119	79.43	326	7.459	133	37.10	198
Aug. 7.5	38.82	0	41.29	377	24.28	22	34.02	267	38.543	66	82.69	317	7.592	90	39.08	179
17.5	38.82	11	45.06	368	24.50	3	36.69	277	38.609	13	85.86	301	7.682	45	40.87	158
27.5	38.71	21	48.74	353	24.53	16	39.46	275	38.622	37	88.87	280	7.727	3	42.45	137
Sept. 6.4	38.50	29	52.27	329	24.37	35	42.21	264	38.585	83	91.67	253	7.730	37	43.82	112
16.4	38.21	39	55.56	300	24.02	52	44.85	240	38.502	124	94.20	222	7.693	70	44.94	88
26.4	37.82	46	58.56	263	23.50	67	47.25	208	38.378	158	96.42	186	7.623	99	45.82	63
Okt. 6.4	37.36	52	61.19	220	22.83	78	49.33	166	38.220	183	98.28	147	7.524	120	46.45	39
16.3	36.84	56	63.39	172	22.05	87	50.99	116	38.037	202	99.75	104	7.404	133	46.84	15
26.3	36.28	59	65.11	120	21.18	92	52.15	62	37.835	210	100.79	60	7.271	139	46.99	8
Nov. 5.3	35.69	60	66.31	63	20.26	93	52.77	2	37.625	211	101.39	13	7.132	137	46.91	31
15.2	35.09	61	66.94	4	19.33	90	52.79	57	37.414	204	101.52	34	6.995	130	46.60	52
25.2	34.48	58	66.98	55	18.43	84	52.22	116	37.210	189	101.18	81	6.865	116	46.08	72
Dez. 5.2	33.90	54	66.43	113	17.59	74	51.06	173	37.021	169	100.37	126	6.749	97	45.36	90
15.2	33.36	48	65.30	170	16.85	62	49.33	222	36.852	143	99.11	166	6.652	76	44.46	105
25.1	32.88	41	63.60	219	16.23	48	47.11	266	36.709	110	97.45	202	6.576	50	43.41	116
35.1	32.47		61.41		15.75		44.45		36.599		95.43		6.526		42.25	
Mittl. Ort	34.92		30.46		10.86		50.68		34.842		68.40		3.616		21.45	
sec δ, tg δ	2.951		+2.776		4.718		−4.611		1.306		+0.840		1.014		+0.167	

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Mittlere Zeit Greenw.	819) δ Capricorni AR.		819) δ Capricorni Dekl.		821) π^2 Cygni AR.		821) π^2 Cygni Dekl.		822) γ Gruis AR.		822) γ Gruis Dekl.		823) 16 Pegasi AR.		823) 16 Pegasi Dekl.	
	$21^h\ 42^m$		−16° 30′		$21^h\ 43^m$		+48° 55′		$21^h\ 48^m$		−37° 45′		$21^h\ 49^m$		+25° 31′	
Jan. 1.1	24.383	23	36.71	1	40.150	136	25.16	225	50.840	47	46.69	106	13.927	61	52.84	173
11.1	24.360	7	36.72	12	40.014	92	22.91	255	50.793	10	45.63	131	13.866	31	51.11	188
21.1	24.367	37	36.60	27	39.922	44	20.36	274	50.783	28	44.32	153	13.835	1	49.23	196
31.0	24.404	67	36.33	41	39.878	8	17.62	283	50.811	65	42.79	172	13.836	35	47.27	196
Feb. 10.0	24.471	99	35.92	58	39.886	62	14.79	280	50.876	104	41.07	188	13.871	71	45.31	185
20.0	24.570	129	35.34	76	39.948	118	11.99	265	50.980	142	39.19	202	13.942	108	43.46	168
März 1.0	24.699	161	34.58	93	40.066	174	9.34	239	51.122	180	37.17	212	14.050	145	41.78	141
10.9	24.860	192	33.65	112	40.240	228	6.95	202	51.302	217	35.05	218	14.195	182	40.37	107
20.9	25.052	223	32.53	129	40.468	277	4.93	157	51.519	252	32.87	221	14.377	218	39.30	68
30.9	25.275	250	31.24	145	40.745	321	3.36	106	51.771	286	30.66	220	14.595	251	38.62	24
Apr. 9.9	25.525	276	29.79	159	41.066	358	2.30	51	52.057	317	28.46	215	14.846	280	38.38	21
19.8	25.801	298	28.20	169	41.424	387	1.79	7	52.374	342	26.31	205	15.126	304	38.59	67
29.8	26.099	314	26.51	175	41.811	406	1.86	65	52.716	363	24.26	192	15.430	320	39.26	111
Mai 9.8	26.413	325	24.76	177	42.217	413	2.51	120	53.079	376	22.34	172	15.750	331	40.37	152
19.7	26.738	330	22.99	174	42.630	411	3.71	172	53.455	382	20.62	150	16.081	333	41.89	189
29.7	27.068	324	21.25	167	43.041	396	5.43	219	53.837	379	19.12	123	16.414	327	43.78	220
Juni 8.7	27.392	314	19.58	155	43.437	373	7.62	259	54.216	366	17.89	93	16.741	312	45.98	245
18.7	27.706	294	18.03	140	43.810	339	10.21	293	54.582	346	16.96	61	17.053	290	48.43	264
28.6	28.000	267	16.63	120	44.149	296	13.14	319	54.928	315	16.35	29	17.343	260	51.07	276
Juli 8.6	28.267	233	15.43	99	44.445	247	16.33	336	55.243	277	16.06	5	17.603	224	53.83	282
18.6	28.500	194	14.44	75	44.692	193	19.69	348	55.520	232	16.11	37	17.827	183	56.65	280
28.6	28.694	150	13.69	52	44.885	134	23.17	350	55.752	181	16.48	66	18.010	139	59.45	274
Aug. 7.5	28.844	105	13.17	28	45.019	75	26.67	345	55.933	127	17.14	92	18.149	92	62.19	261
17.5	28.949	58	12.89	7	45.094	15	30.12	333	56.060	71	18.06	114	18.241	46	64.80	243
27.5	29.007	13	12.82	14	45.109	43	33.45	315	56.131	16	19.20	130	18.287	1	67.23	222
Sept. 6.4	29.020	30	12.96	30	45.066	95	36.60	290	56.147	36	20.50	139	18.288	41	69.45	197
16.4	28.990	66	13.26	44	44.971	143	39.50	260	56.111	83	21.89	142	18.247	77	71.42	169
26.4	28.924	97	13.70	52	44.828	182	42.10	225	56.028	122	23.31	137	18.170	108	73.11	138
Okt. 6.4	28.827	121	14.22	59	44.646	215	44.35	184	55.906	154	24.68	127	18.062	132	74.49	105
16.3	28.706	135	14.81	60	44.431	239	46.19	140	55.752	174	25.95	110	17.930	148	75.54	71
26.3	28.571	141	15.41	59	44.192	252	47.59	92	55.578	185	27.05	87	17.782	157	76.25	35
Nov. 5.3	28.430	140	16.00	55	43.940	258	48.51	41	55.393	185	27.92	61	17.625	159	76.60	0
15.3	28.290	130	16.55	48	43.682	255	48.92	11	55.208	177	28.53	32	17.466	153	76.60	37
25.2	28.160	115	17.03	40	43.427	242	48.81	63	55.031	159	28.85	1	17.313	142	76.23	72
Dez. 5.2	28.045	95	17.43	31	43.185	223	48.18	113	54.872	135	28.86	29	17.171	126	75.51	105
15.2	27.950	71	17.74	20	42.962	195	47.05	161	54.737	106	28.57	60	17.045	105	74.46	135
25.1	27.879	43	17.94	9	42.767	161	45.44	204	54.631	73	27.97	89	16.940	80	73.11	161
35.1	27.836		18.03		42.606		43.40		54.558		27.08		16.860		71.50	
Mittl. Ort	24.388		32.55		41.313		13.42		50.781		37.88		14.344		45.93	
sec δ, tg δ	1.043		−0.296		1.522		+1.147		1.265		−0.775		1.108		+0.477	

Mittlere Zeit Greenw.	827) α Aquarii AR.		827) α Aquarii Dekl.		828) ι Aquarii AR.		828) ι Aquarii Dekl.		830) 20 Cephei AR.		830) 20 Cephei Dekl.		829) α Gruis AR.		829) α Gruis Dekl.	
	$22^h\ 1^m$		$-0°\ 43'$		$22^h\ 1^m$		$-14°\ 16'$		$22^h\ 2^m$		$+62°\ 22'$		$22^h\ 2^m$		$-47°\ 21'$	
Jan. 1.1	28.186	38	41.93	72	54.213	38	42.88	12	25.33	27	47.41	213	56.815	86	77.22	145
11.1	28.148	14	42.65	70	54.175	12	43.00	0	25.06	21	45.28	252	56.729	44	75.77	176
21.1	28.134	13	43.35	62	54.163	17	43.00	15	24.85	15	42.76	282	56.685	1	74.01	203
31.1	28.147	41	43.97	52	54.180	46	42.85	31	24.70	7	39.94	301	56.684	45	71.98	225
Feb. 10.0	28.188	70	44.49	36	54.226	75	42.54	48	24.63	1	36.93	307	56.729	89	69.73	242
20.0	28.258	102	44.85	17	54.301	107	42.06	66	24.64	9	33.86	300	56.818	135	67.31	255
März 1.0	28.360	133	45.02	5	54.408	139	41.40	86	24.73	18	30.86	282	56.953	180	64.76	263
11.0	28.493	165	44.97	31	54.547	171	40.54	106	24.91	26	28.04	250	57.133	225	62.13	266
20.9	28.658	197	44.66	58	54.718	203	39.48	125	25.17	33	25.54	210	57.358	266	59.47	264
30.9	28.855	227	44.08	86	54.921	232	38.23	143	25.50	40	23.44	161	57.624	307	56.83	256
Apr. 9.9	29.082	255	43.22	112	55.153	261	36.80	160	25.90	46	21.83	106	57.931	344	54.27	245
19.8	29.337	279	42.10	138	55.414	286	35.20	172	26.36	51	20.77	47	58.275	376	51.82	227
29.8	29.616	297	40.72	160	55.700	305	33.48	182	26.87	53	20.30	13	58.651	401	49.55	206
Mai 9.8	29.913	311	39.12	178	56.005	319	31.66	186	27.40	54	20.43	74	59.052	419	47.49	178
19.8	30.224	316	37.34	191	56.324	326	29.80	185	27.94	54	21.17	131	59.471	429	45.71	148
29.7	30.540	315	35.43	199	56.650	325	27.95	181	28.48	53	22.48	185	59.900	428	44.23	113
Juni 8.7	30.855	306	33.44	202	56.975	316	26.14	171	29.01	50	24.33	233	60.328	417	43.10	76
18.7	31.161	289	31.42	200	57.291	300	24.43	157	29.51	45	26.66	276	60.745	396	42.34	38
28.7	31.450	265	29.42	192	57.591	276	22.86	138	29.96	40	29.42	310	61.141	365	41.96	2
Juli 8.6	31.715	234	27.50	180	57.867	244	21.48	118	30.36	34	32.52	338	61.506	324	41.98	41
18.6	31.949	198	25.70	165	58.111	208	20.30	95	30.70	26	35.90	357	61.830	274	42.39	78
28.6	32.147	157	24.05	146	58.319	166	19.35	71	30.96	18	39.47	369	62.104	218	43.17	111
Aug. 7.5	32.304	114	22.59	125	58.485	121	18.64	46	31.14	11	43.16	373	62.322	156	44.28	139
17.5	32.418	70	21.34	104	58.606	76	18.18	22	31.25	3	46.89	369	62.478	94	45.67	162
27.5	32.488	28	20.30	81	58.682	31	17.96	1	31.28	5	50.58	357	62.572	29	47.29	178
Sept. 6.5	32.516	12	19.49	59	58.713	11	17.95	18	31.23	13	54.15	337	62.601	32	49.07	186
16.4	32.504	48	18.90	37	58.702	49	18.13	34	31.10	19	57.52	313	62.569	88	50.93	186
26.4	32.456	79	18.53	18	58.653	81	18.47	47	30.91	25	60.65	280	62.481	138	52.79	178
Okt. 6.4	32.377	102	18.35	1	58.572	106	18.94	55	30.66	30	63.45	241	62.343	177	54.57	161
16.4	32.275	118	18.34	16	58.466	124	19.49	60	30.36	35	65.86	198	62.166	206	56.18	138
26.3	32.157	127	18.50	29	58.342	133	20.09	60	30.01	37	67.84	148	61.960	223	57.56	108
Nov. 5.3	32.030	128	18.79	42	58.209	134	20.69	59	29.64	39	69.32	94	61.737	229	58.64	72
15.3	31.902	124	19.21	52	58.075	129	21.28	55	29.25	40	70.26	39	61.508	223	59.36	34
25.2	31.778	113	19.73	61	57.946	118	21.83	49	28.85	39	70.65	19	61.285	207	59.70	6
Dez. 5.2	31.665	98	20.34	67	57.828	101	22.32	40	28.46	37	70.46	78	61.078	183	59.64	46
15.2	31.567	79	21.01	72	57.727	80	22.72	31	28.09	35	69.68	133	60.895	152	59.18	86
25.2	31.488	57	21.73	73	57.647	57	23.03	20	27.74	30	68.35	184	60.743	115	58.32	123
35.1	31.431		22.46		57.590		23.23		27.44		66.51		60.628		57.09	
Mittl. Ort	28.208		42.33		54.141		39.61		27.26		31.86		56.708		66.54	
sec δ, tg δ	1.000		−0.013		1.032		−0.254		2.157		+1.911		1.476		−1.086	

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Mittlere Zeit Greenw.	834) ϑ Pegasi AR.		Dekl.		835) π Pegasi AR.		Dekl.		836) ζ Cephei AR.		Dekl.		837) 24 Cephei AR.		Dekl.	
	22h 5m		+5° 46′		22h 6m		+32° 45′		22h 7m		+57° 47′		22h 8m		+71° 55′	
Jan. 1.1	57.703 s	46	65.18″	98	14.831 s	89	65.90″	180	54.777 s	225	27.80″	207	8.44 s	48	55.35″	200
11.1	57.657	21	64.20	99	14.742	61	64.10	202	54.552	176	25.73	245	7.96	39	53.35	246
21.1	57.636	5	63.21	97	14.681	27	62.08	217	54.376	120	23.28	274	7.57	29	50.89	280
31.1	57.641	34	62.24	88	14.654	9	59.91	221	54.256	56	20.54	292	7.28	17	48.09	304
Feb. 10.0	57.675	64	61.36	75	14.663	47	57.70	216	54.200	11	17.62	298	7.11	4	45.05	316
20.0	57.739	95	60.61	56	14.710	88	55.54	202	54.211	84	14.64	290	7.07	8	41.89	314
März 1.0	57.834	128	60.05	32	14.798	130	53.52	178	54.295	155	11.74	272	7.15	21	38.75	300
11.0	57.962	161	59.73	6	14.928	172	51.74	146	54.450	225	9.02	241	7.36	34	35.75	273
20.9	58.123	193	59.67	25	15.100	213	50.28	106	54.675	293	6.61	201	7.70	45	33.02	235
30.9	58.316	225	59.92	57	15.313	250	49.22	62	54.968	352	4.60	154	8.15	56	30.67	189
Apr. 9.9	58.541	253	60.49	88	15.563	284	48.60	15	55.320	403	3.06	99	8.71	64	28.78	135
19.8	58.794	278	61.37	120	15.847	312	48.45	35	55.723	444	2.07	41	9.35	70	27.43	76
29.8	59.072	297	62.57	147	16.159	333	48.80	83	56.167	472	1.66	18	10.05	75	26.67	15
Mai 9.8	59.369	310	64.04	171	16.492	347	49.63	130	56.639	487	1.84	77	10.80	76	26.52	45
19.8	59.679	318	65.75	191	16.839	350	50.93	172	57.126	490	2.61	133	11.56	76	26.97	106
29.7	59.997	316	67.66	206	17.189	347	52.65	210	57.616	477	3.94	186	12.32	74	28.03	162
Juni 8.7	60.313	307	69.72	214	17.536	333	54.75	242	58.093	454	5.80	232	13.06	70	29.65	214
18.7	60.620	290	71.86	218	17.869	312	57.17	268	58.547	417	8.12	274	13.76	63	31.79	259
28.7	60.910	266	74.04	216	18.181	282	59.85	286	58.964	370	10.86	307	14.39	55	34.38	299
Juli 8.6	61.176	235	76.20	209	18.463	246	62.71	298	59.334	315	13.93	333	14.94	46	37.37	331
18.6	61.411	199	78.29	196	18.709	204	65.69	302	59.649	253	17.26	352	15.40	35	40.68	354
28.6	61.610	160	80.25	182	18.913	158	68.71	301	59.902	186	20.78	362	15.75	25	44.22	372
Aug. 7.5	61.770	117	82.07	162	19.071	110	71.72	293	60.088	116	24.40	366	16.00	13	47.94	380
17.5	61.887	72	83.69	142	19.181	62	74.65	279	60.204	45	28.06	360	16.13	2	51.74	380
27.5	61.959	31	85.11	120	19.243	14	77.44	260	60.249	23	31.66	349	16.15	9	55.54	373
Sept. 6.5	61.990	10	86.31	96	19.257	30	80.04	237	60.226	88	35.15	329	16.06	21	59.27	358
16.4	61.980	45	87.27	74	19.227	70	82.41	209	60.138	148	38.44	304	15.85	30	62.85	336
26.4	61.935	76	88.01	50	19.157	104	84.50	178	59.990	201	41.48	271	15.55	39	66.21	306
Okt. 6.4	61.859	99	88.51	28	19.053	132	86.28	144	59.789	245	44.19	234	15.16	47	69.27	270
16.4	61.760	116	88.79	8	18.921	152	87.72	106	59.544	281	46.53	191	14.69	53	71.97	227
26.3	61.644	126	88.87	12	18.769	165	88.78	68	59.263	307	48.44	142	14.16	59	74.24	178
Nov. 5.3	61.518	129	88.75	30	18.604	170	89.46	27	58.956	323	49.86	91	13.57	62	76.02	125
15.3	61.389	124	88.45	48	18.434	170	89.73	14	58.633	328	50.77	36	12.95	64	77.27	67
25.2	61.265	116	87.97	63	18.264	163	89.59	55	58.305	325	51.13	21	12.31	64	77.94	7
Dez. 5.2	61.149	101	87.34	76	18.101	149	89.04	94	57.980	310	50.92	76	11.67	62	78.01	54
15.2	61.048	84	86.58	87	17.952	131	88.10	132	57.670	285	50.16	131	11.05	58	77.47	114
25.2	60.964	62	85.71	96	17.821	108	86.78	163	57.385	252	48.85	180	10.47	52	76.33	169
35.1	60.902		84.75		17.713		85.15		57.133		47.05		9.95		74.64	
Mittl. Ort	57.762		62.79		15.305		56.15		56.262		12.57		11.74		38.07	
sec δ, tg δ	1.005		+0.101		1.189		+0.643		1.876		+1.587		3.223		+3.064	

Mittlere Zeit Greenw.	840) ϑ Aquarii AR.		840) ϑ Aquarii Dekl.		841) α Tucanae AR.		841) α Tucanae Dekl.		842) γ Aquarii AR.		842) γ Aquarii Dekl.		844) 3 Lacertae AR.		844) 3 Lacertae Dekl.	
	$22^h\ 12^m$		$-8°\ 11'$		$22^h\ 12^m$		$-60°\ 40'$		$22^h\ 17^m$		$-1°\ 48'$		$22^h\ 20^m$		$+51°\ 48'$	
Jan. 1.1	24.231	45	68.60	40	45.53	17	56.61	196	19.154	50	39.38	65	14.227	186	43.09	192
11.1	24.186	21	69.00	30	45.36	12	54.65	234	19.104	26	40.03	62	14.041	147	41.17	230
21.1	24.165	$\overline{6}$	69.30	19	45.24	5	52.31	264	19.078	1	40.65	54	13.894	102	38.87	258
31.1	24.171	33	69.49	6	45.19	$\overline{1}$	49.67	289	19.077	$\overline{26}$	41.19	42	13.792	51	36.29	274
Feb. 10.0	24.204	63	69.55	$\overline{12}$	45.20	8	46.78	306	19.103	56	41.61	28	13.741	$\overline{6}$	33.55	281
20.0	24.267	93	69.43	30	45.28	14	43.72	317	19.159	86	41.89	8	13.747	65	30.74	274
März 1.0	24.360	126	69.13	52	45.42	21	40.55	321	19.245	118	41.97	$\overline{13}$	13.812	126	28.00	257
11.0	24.486	157	68.61	74	45.63	26	37.34	317	19.363	150	41.84	39	13.938	187	25.43	229
20.9	24.643	190	67.87	97	45.89	33	34.17	309	19.513	184	41.45	65	14.125	246	23.14	190
30.9	24.833	221	66.90	120	46.22	39	31.08	294	19.697	215	40.80	91	14.371	300	21.24	144
Apr. 9.9	25.054	250	65.70	141	46.61	43	28.14	272	19.912	245	39.89	117	14.671	347	19.80	92
19.8	25.304	275	64.29	160	47.04	48	25.42	246	20.157	271	38.72	142	15.018	386	18.88	37
29.8	25.579	297	62.69	175	47.52	51	22.96	214	20.428	293	37.30	163	15.404	416	18.51	$\overline{19}$
Mai 9.8	25.876	312	60.94	185	48.03	53	20.82	177	20.721	308	35.67	180	15.820	433	18.70	76
19.8	26.188	319	59.09	192	48.56	55	19.05	137	21.029	317	33.87	192	16.253	439	19.46	131
29.7	26.507	321	57.17	193	49.11	56	17.68	93	21.346	318	31.95	200	16.692	434	20.77	180
Juni 8.7	26.828	313	55.24	188	49.67	54	16.75	48	21.664	311	29.95	202	17.126	417	22.57	226
18.7	27.141	299	53.36	181	50.21	51	16.27	2	21.975	297	27.93	199	17.543	389	24.83	265
28.7	27.440	276	51.55	166	50.72	48	16.25	$\overline{45}$	22.272	274	25.94	191	17.932	351	27.48	297
Juli 8.6	27.716	246	49.89	149	51.20	43	16.70	89	22.546	246	24.03	179	18.283	305	30.45	322
18.6	27.962	211	48.40	130	51.63	36	17.59	130	22.792	211	22.24	162	18.588	252	33.67	339
28.6	28.173	171	47.10	107	51.99	28	18.89	167	23.003	172	20.62	143	18.840	195	37.06	350
Aug. 7.5	28.344	129	46.03	84	52.27	21	20.56	196	23.175	130	19.19	122	19.035	134	40.56	351
17.5	28.473	84	45.19	61	52.48	12	22.52	219	23.305	87	17.97	99	19.169	73	44.07	347
27.5	28.557	40	44.58	37	52.60	4	24.71	234	23.392	44	16.98	76	19.242	12	47.54	335
Sept. 6.5	28.597	$\overline{1}$	44.21	17	52.64	$\overline{5}$	27.05	238	23.436	3	16.22	54	19.254	$\overline{45}$	50.89	316
16.4	28.596	38	44.04	$\overline{3}$	52.59	12	29.43	233	23.439	$\overline{34}$	15.68	32	19.209	99	54.05	292
26.4	28.558	70	44.07	19	52.47	20	31.76	220	23.405	65	15.36	13	19.110	145	56.97	261
Okt. 6.4	28.488	95	44.26	32	52.27	26	33.96	194	23.340	91	15.23	$\overline{4}$	18.965	185	59.58	225
16.4	28.393	114	44.58	42	52.01	31	35.90	162	23.249	108	15.27	20	18.780	217	61.83	183
26.3	28.279	124	45.00	50	51.70	33	37.52	123	23.141	120	15.47	32	18.563	241	63.66	139
Nov. 5.3	28.155	127	45.50	54	51.37	35	38.75	76	23.021	124	15.79	44	18.322	257	65.05	89
15.3	28.028	124	46.04	56	51.02	35	39.51	27	22.897	122	16.23	53	18.065	263	65.94	37
25.2	27.904	115	46.60	56	50.67	33	39.78	$\overline{24}$	22.775	114	16.76	59	17.802	261	66.31	$\overline{16}$
Dez. 5.2	27.789	101	47.16	54	50.34	30	39.54	75	22.661	101	17.35	65	17.541	252	66.15	69
15.2	27.688	84	47.70	51	50.04	26	38.79	125	22.560	86	18.00	68	17.289	234	65.46	120
25.2	27.604	62	48.21	45	49.78	22	37.54	169	22.474	65	18.68	67	17.055	206	64.26	168
35.1	27.542		48.66		49.56		35.85		22.409		19.35		16.849		62.58	
Mittl. Ort	24.145		67.21		45.49		43.87		19.091		39.95		15.239		28.06	
sec δ, tg δ	1.010		−0.144		2.042		−1.780		1.000		−0.032		1.617		+1.271	

Mittlere Zeit Greenw.	848) 7 Lacertae				850) η Aquarii				852) 10 Lacertae				855) ζ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$22^h\ 27^m$		$+49°\ 50'$		$22^h\ 31^m$		$-0°\ 32'$		$22^h\ 35^m$		$+38°\ 36'$		$22^h\ 37^m$		$+10°\ 23'$	
Jan. 1.2	48.823	178	76.13	184	2.548	59	61.77	69	28.958	128	58.78	167	16.377	69	37.86	105
11.1	48.645	143	74.29	221	2.489	37	62.46	66	28.830	101	57.11	196	16.308	49	36.81	110
21.1	48.502	101	72.08	248	2.452	14	63.12	59	28.729	69	55.15	218	16.259	25	35.71	111
31.1	48.401	54	69.60	266	2.438	13	63.71	48	28.660	33	52.97	230	16.234	1	34.60	106
Feb. 10.0	48.347	1	66.94	272	2.451	41	64.19	33	28.627	8	50.67	232	16.235	30	33.54	96
20.0	48.346	55	64.22	267	2.492	71	64.52	15	28.635	52	48.35	225	16.265	62	32.58	80
März 1.0	48.401	114	61.55	251	2.563	104	64.67	7	28.687	98	46.10	207	16.327	95	31.78	59
11.0	48.515	172	59.04	223	2.667	137	64.60	32	28.785	146	44.03	180	16.422	131	31.19	32
20.9	48.687	230	56.81	187	2.804	171	64.28	58	28.931	193	42.23	145	16.553	166	30.87	1
30.9	48.917	283	54.94	142	2.975	204	63.70	86	29.124	237	40.78	102	16.719	201	30.86	30
Apr. 9.9	49.200	330	53.52	92	3.179	236	62.84	113	29.361	279	39.76	56	16.920	235	31.16	65
19.8	49.530	369	52.60	38	3.415	264	61.71	138	29.640	313	39.20	6	17.155	263	31.81	98
29.8	49.899	400	52.22	18	3.679	287	60.33	159	29.953	342	39.14	44	17.418	288	32.79	130
Mai 9.8	50.299	418	52.40	74	3.966	304	58.74	179	30.295	361	39.58	95	17.706	307	34.09	158
19.8	50.717	428	53.14	127	4.270	316	56.95	193	30.656	372	40.53	141	18.013	317	35.67	183
29.7	51.145	424	54.41	176	4.586	318	55.02	202	31.028	372	41.94	184	18.330	322	37.50	203
Juni 8.7	51.569	410	56.17	221	4.904	315	53.00	205	31.400	363	43.78	222	18.652	317	39.53	217
18.7	51.979	385	58.38	260	5.219	302	50.95	204	31.763	345	46.00	254	18.969	304	41.70	226
28.7	52.364	350	60.98	291	5.521	281	48.91	197	32.108	318	48.54	280	19.273	284	43.96	228
Juli 8.6	52.714	308	63.89	317	5.802	254	46.94	186	32.426	283	51.34	298	19.557	257	46.24	227
18.6	53.022	258	67.06	334	6.056	221	45.08	170	32.709	242	54.32	310	19.814	224	48.51	218
28.6	53.280	203	70.40	344	6.277	183	43.38	152	32.951	197	57.42	314	20.038	186	50.69	206
Aug. 7.6	53.483	146	73.84	346	6.460	142	41.86	130	33.148	148	60.56	313	20.224	146	52.75	190
17.5	53.629	86	77.30	343	6.602	100	40.56	108	33.296	97	63.69	305	20.370	102	54.65	171
27.5	53.715	28	80.73	331	6.702	57	39.48	85	33.393	48	66.74	290	20.472	60	56.36	150
Sept. 6.5	53.743	27	84.04	313	6.759	16	38.63	62	33.441	0	69.64	272	20.532	20	57.86	126
16.4	53.716	79	87.17	289	6.775	21	38.01	40	33.441	43	72.36	247	20.552	17	59.12	103
26.4	53.637	125	90.06	259	6.754	54	37.61	19	33.398	82	74.83	218	20.535	50	60.15	78
Okt. 6.4	53.512	164	92.65	225	6.700	79	37.42	1	33.316	116	77.01	185	20.485	77	60.93	54
16.4	53.348	196	94.90	184	6.621	100	37.41	15	33.200	142	78.86	149	20.408	98	61.47	31
26.3	53.152	220	96.74	140	6.521	113	37.56	30	33.058	162	80.35	109	20.310	112	61.78	8
Nov. 5.3	52.932	236	98.14	93	6.408	119	37.86	42	32.896	174	81.44	67	20.198	119	61.86	14
15.3	52.696	244	99.07	42	6.289	120	38.28	52	32.722	180	82.11	23	20.079	122	61.72	35
25.3	52.452	244	99.49	10	6.169	114	38.80	59	32.542	180	82.34	21	19.957	119	61.37	54
Dez. 5.2	52.208	236	99.39	62	6.055	104	39.39	66	32.362	173	82.13	66	19.838	111	60.83	72
15.2	51.972	220	98.77	113	5.951	91	40.05	70	32.189	161	81.47	108	19.727	98	60.11	87
25.2	51.752	197	97.64	158	5.860	74	40.75	70	32.028	143	80.39	146	19.629	83	59.24	99
35.1	51.555		96.06		5.786		41.45		31.885		78.93		19.546		58.25	
Mittl. Ort	49.678		60.98		2.427		63.14		29.380		45.80		16.324		32.92	
sec δ, tg δ	1.551		+1.185		1.000		−0.010		1.280		+0.798		1.017		+0.183	

Mittlere Zeit Greenw.	856) β Gruis AR.		856) β Gruis Dekl.		857) η Pegasi AR.		857) η Pegasi Dekl.		859) λ Pegasi AR.		859) λ Pegasi Dekl.		860) ε Gruis AR.		860) ε Gruis Dekl.	
	22h 37m		−47° 19′		22h 39m		+29° 46′		22h 42m		+23° 7′		22h 43m		−51° 45′	
Jan. 1.2	39.699	126	38.68	123	3.544	102	64.22	151	28.928	90	32.76	135	29.549	154	43.97	136
11.1	39.573	91	37.45	158	3.442	79	62.71	173	28.838	69	31.41	153	29.395	116	42.61	176
21.1	39.482	51	35.87	192	3.363	52	60.98	188	28.769	43	29.88	162	29.279	73	40.85	210
31.1	39.431	10	33.95	219	3.311	21	59.10	196	28.726	15	28.26	167	29.206	28	38.75	239
Feb. 10.0	39.421	33	31.76	243	3.290	14	57.14	195	28.711	16	26.59	163	29.178	20	36.36	264
20.0	39.454	78	29.33	261	3.304	53	55.19	185	28.727	52	24.96	150	29.198	69	33.72	282
März 1.0	39.532	124	26.72	274	3.357	92	53.34	166	28.779	89	23.46	131	29.267	120	30.90	295
11.0	39.656	171	23.98	282	3.449	135	51.68	138	28.868	128	22.15	104	29.387	171	27.95	302
20.9	39.827	217	21.16	285	3.584	177	50.30	104	28.996	168	21.11	71	29.558	222	24.93	303
30.9	40.044	261	18.31	281	3.761	218	49.26	65	29.164	206	20.40	34	29.780	271	21.90	298
Apr. 9.9	40.305	304	15.50	274	3.979	255	48.61	21	29.370	242	20.06	6	30.051	318	18.92	286
19.9	40.609	342	12.76	259	4.234	288	48.40	24	29.612	274	20.12	48	30.369	360	16.06	270
29.8	40.951	375	10.17	240	4.522	314	48.64	69	29.886	300	20.60	89	30.729	396	13.36	248
Mai 9.8	41.326	401	7.77	215	4.836	334	49.33	113	30.186	320	21.49	128	31.125	426	10.88	219
19.8	41.727	418	5.62	185	5.170	346	50.46	155	30.506	332	22.77	163	31.551	444	8.69	186
29.7	42.145	425	3.77	150	5.516	347	52.01	191	30.838	335	24.40	195	31.995	455	6.83	149
Juni 8.7	42.570	423	2.27	113	5.863	341	53.92	222	31.173	331	26.35	220	32.450	454	5.34	108
18.7	42.993	410	1.14	73	6.204	326	56.14	248	31.504	317	28.55	242	32.904	440	4.26	64
28.7	43.403	386	0.41	30	6.530	302	58.62	267	31.821	295	30.97	255	33.344	416	3.62	20
Juli 8.6	43.789	351	0.11	12	6.832	272	61.29	280	32.116	267	33.52	263	33.760	381	3.42	25
18.6	44.140	308	0.23	52	7.104	234	64.09	285	32.383	233	36.15	264	34.141	336	3.67	68
28.6	44.448	258	0.75	92	7.338	193	66.94	286	32.616	192	38.79	261	34.477	281	4.35	109
Aug. 7.6	44.706	199	1.67	126	7.531	148	69.80	280	32.808	151	41.40	251	34.758	220	5.44	144
17.5	44.905	139	2.93	155	7.679	102	72.60	268	32.959	106	43.91	237	34.978	154	6.88	174
27.5	45.044	75	4.48	177	7.781	57	75.28	252	33.065	62	46.28	220	35.132	85	8.62	198
Sept. 6.5	45.119	13	6.25	193	7.838	12	77.80	231	33.127	21	48.48	197	35.217	18	10.60	212
16.5	45.132	45	8.18	199	7.850	28	80.11	207	33.148	19	50.45	174	35.235	47	12.72	218
26.4	45.087	98	10.17	198	7.822	64	82.18	178	33.129	52	52.19	146	35.188	106	14.90	215
Okt. 6.4	44.989	143	12.15	186	7.758	94	83.96	148	33.077	82	53.65	118	35.082	157	17.05	202
16.4	44.846	179	14.01	168	7.664	117	85.44	115	32.995	105	54.83	88	34.925	198	19.07	181
26.3	44.667	205	15.69	140	7.547	135	86.59	79	32.890	121	55.71	56	34.727	228	20.88	151
Nov. 5.3	44.462	219	17.09	108	7.412	146	87.38	43	32.769	131	56.27	25	34.499	246	22.39	115
15.3	44.243	222	18.17	70	7.266	151	87.81	5	32.638	135	56.52	8	34.253	253	23.54	73
25.3	44.021	216	18.87	29	7.115	150	87.86	32	32.503	135	56.44	39	34.000	248	24.27	29
Dez. 5.2	43.805	202	19.16	13	6.965	144	87.54	69	32.368	128	56.05	69	33.752	233	24.56	17
15.2	43.603	179	19.03	56	6.821	132	86.85	103	32.240	117	55.36	98	33.519	211	24.39	64
25.2	43.424	150	18.47	97	6.689	117	85.82	135	32.123	103	54.38	123	33.308	180	23.75	109
35.1	43.274		17.50		6.572		84.47		32.020		53.15		33.128		22.66	
Mittl. Ort	39.369		27.82		3.751		53.42		29.004		23.72		29.187		32.28	
sec δ, tg δ	1.475		−1.085		1.152		+0.572		1.087		+0.427		1.616		−1.269	

Mittlere Zeit Greenw.	863) ι Cephei AR.		863) ι Cephei Dekl.		864) λ Aquarii AR.		864) λ Aquarii Dekl.		865) ρ Indi AR.		865) ρ Indi Dekl.		866) δ Aquarii AR.		866) δ Aquarii Dekl.	
	22h 46m		+65° 45′		22h 48m		−8° 1′		22h 48m		−70° 30′		22h 50m		−16° 15′	
	s		″		s		″		s		″		s		″	
Jan. 1.2	39.44	37	49.50	160	14.253	68	37.33	41	50.16	39	96.14	201	11.951	73	67.13	11
11.1	39.07	32	47.90	209	14.185	49	37.74	31	49.77	31	94.13	247	11.878	53	67.24	7
21.1	38.75	26	45.81	249	14.136	26	38.05	18	49.46	23	91.66	285	11.825	29	67.17	24
31.1	38.49	18	43.32	279	14.110	2	38.23	3	49.23	13	88.81	317	11.796	4	66.93	44
Feb. 10.0	38.31	10	40.53	297	14.108	26	38.26	14	49.10	5	85.64	339	11.792	24	66.49	64
20.0	38.21	0	37.56	303	14.134	55	38.12	34	49.05	6	82.25	355	11.816	55	65.85	85
März 1.0	38.21	9	34.53	296	14.189	87	37.78	55	49.11	15	78.70	362	11.871	87	65.00	106
11.0	38.30	19	31.57	277	14.276	122	37.23	77	49.26	25	75.08	361	11.958	122	63.94	126
20.9	38.49	29	28.80	247	14.398	156	36.46	101	49.51	34	71.47	353	12.080	158	62.68	147
30.9	38.78	37	26.33	207	14.554	190	35.45	125	49.85	43	67.94	338	12.238	192	61.21	165
Apr. 9.9	39.15	45	24.26	159	14.744	224	34.20	146	50.28	51	64.56	315	12.430	226	59.56	180
19.9	39.60	51	22.67	105	14.968	255	32.74	164	50.79	58	61.41	287	12.656	258	57.76	193
29.8	40.11	56	21.62	48	15.223	280	31.10	181	51.37	65	58.54	252	12.914	285	55.83	202
Mai 9.8	40.67	60	21.14	12	15.503	301	29.29	193	52.02	70	56.02	211	13.199	306	53.81	206
19.8	41.27	61	21.26	70	15.804	315	27.36	200	52.72	73	53.91	166	13.505	322	51.75	205
29.8	41.88	61	21.96	127	16.119	322	25.36	202	53.45	75	52.25	118	13.827	328	49.70	198
Juni 8.7	42.49	60	23.23	179	16.441	320	23.34	198	54.20	75	51.07	68	14.155	328	47.72	188
18.7	43.09	56	25.02	228	16.761	311	21.36	190	54.95	72	50.39	15	14.483	320	45.84	171
28.7	43.65	51	27.30	270	17.072	294	19.46	178	55.67	69	50.24	37	14.803	302	44.13	151
Juli 8.6	44.16	45	30.00	306	17.366	269	17.68	160	56.36	63	50.61	88	15.105	277	42.62	128
18.6	44.61	37	33.06	334	17.635	237	16.08	139	56.99	56	51.49	136	15.382	246	41.34	102
28.6	44.98	31	36.40	354	17.872	201	14.69	116	57.55	46	52.85	178	15.628	209	40.32	74
Aug. 7.6	45.29	22	39.94	369	18.073	161	13.53	92	58.01	36	54.63	215	15.837	167	39.58	46
17.5	45.51	13	43.63	373	18.234	118	12.61	66	58.37	24	56.78	245	16.004	123	39.12	18
27.5	45.64	5	47.36	372	18.352	75	11.95	42	58.61	12	59.23	264	16.127	79	38.94	8
Sept. 6.5	45.69	3	51.08	362	18.427	34	11.53	19	58.73	0	61.87	274	16.206	36	39.02	31
16.5	45.66	11	54.70	345	18.461	5	11.34	3	58.73	13	64.61	273	16.242	4	39.33	50
26.4	45.55	19	58.15	320	18.456	39	11.37	21	58.60	24	67.34	261	16.238	41	39.83	65
Okt. 6.4	45.36	26	61.35	290	18.417	68	11.58	36	58.36	34	69.95	239	16.197	71	40.48	76
16.4	45.10	31	64.25	252	18.349	90	11.94	48	58.02	42	72.34	205	16.126	94	41.24	81
26.3	44.79	36	66.77	208	18.259	106	12.42	56	57.60	49	74.39	163	16.032	112	42.05	83
Nov. 5.3	44.43	39	68.85	158	18.153	115	12.98	61	57.11	53	76.02	114	15.920	122	42.88	80
15.3	44.04	43	70.43	104	18.038	118	13.59	63	56.58	56	77.16	60	15.798	125	43.68	74
25.3	43.61	43	71.47	47	17.920	115	14.22	62	56.02	56	77.76	2	15.673	122	44.42	64
Dez. 5.2	43.18	44	71.94	13	17.805	109	14.84	60	55.46	53	77.78	57	15.551	115	45.06	52
15.2	42.74	43	71.81	72	17.696	97	15.44	54	54.93	49	77.21	115	15.436	103	45.58	37
25.2	42.31	39	71.09	128	17.599	82	15.98	48	54.44	44	76.06	169	15.333	87	45.95	23
35.1	41.92		69.81		17.517		16.46		54.00		74.37		15.246		46.18	
Mittl. Ort	41.15		30.15		13.990		36.85		49.91		81.98		11.629		64.17	
sec δ, tg δ	2.435		+2.221		1.010		−0.141		2.999		−2.827		1.042		−0.292	

Mittlere Zeit Greenw.	867) α Pisc. austr.				869) ο Andromedae				870) β Pegasi				871) α Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$22^h\ 53^m$		−30° 3′		$22^h\ 58^m$		+41° 52′		$22^h\ 59^m$		+27° 37′		$23^h\ 0^m$		+14° 45′	
Jan. 1.2	1.090	90	70.46	41	2.850	153	42.21	150	41.960	107	47.91	132	34.655	85	18.06	107
11.1	1.000	67	70.05	70	2.697	130	40.71	184	41.853	88	46.59	155	34.570	69	16.99	117
21.1	0.933	40	69.35	97	2.567	101	38.87	210	41.765	65	45.04	170	34.501	48	15.82	123
31.1	0.893	12	68.38	122	2.466	65	36.77	229	41.700	37	43.34	178	34.453	23	14.59	122
Feb. 10.1	0.881	$\overline{20}$	67.16	146	2.401	24	34.48	236	41.663	5	41.56	178	34.430	$\overline{5}$	13.37	115
20.0	0.901	54	65.70	167	2.377	$\overline{21}$	32.12	234	41.658	$\overline{31}$	39.78	171	34.435	36	12.22	102
März 1.0	0.955	90	64.03	187	2.398	71	29.78	222	41.689	71	38.07	154	34.471	71	11.20	84
11.0	1.045	127	62.16	204	2.469	121	27.56	199	41.760	112	36.53	129	34.542	108	10.36	58
21.0	1.172	165	60.12	218	2.590	173	25.57	167	41.872	154	35.24	98	34.650	146	9.78	29
30.9	1.337	204	57.94	227	2.763	224	23.90	129	42.026	196	34.26	62	34.796	184	9.49	$\overline{4}$
Apr. 9.9	1.541	240	55.67	234	2.987	269	22.61	84	42.222	236	33.64	21	34.980	220	9.53	39
19.9	1.781	274	53.33	235	3.256	310	21.77	35	42.458	271	33.43	$\overline{21}$	35.200	253	9.92	75
29.8	2.055	304	50.98	231	3.566	343	21.42	$\overline{15}$	42.729	301	33.64	64	35.453	281	10.67	108
Mai 9.8	2.359	328	48.67	222	3.909	369	21.57	65	43.030	324	34.28	106	35.734	303	11.75	141
19.8	2.687	345	46.45	208	4.278	384	22.22	115	43.354	339	35.34	145	36.037	318	13.16	170
29.8	3.032	354	44.37	189	4.662	389	23.37	160	43.693	345	36.79	181	36.355	326	14.86	194
Juni 8.7	3.386	354	42.48	164	5.051	385	24.97	201	44.038	343	38.60	211	36.681	325	16.80	213
18.7	3.740	346	40.84	137	5.436	369	26.98	237	44.381	332	40.71	236	37.006	315	18.93	227
28.7	4.086	329	39.47	106	5.805	346	29.35	267	44.713	312	43.07	255	37.321	298	21.20	234
Juli 8.7	4.415	303	38.41	72	6.151	313	32.02	290	45.025	285	45.62	268	37.619	274	23.54	237
18.6	4.718	269	37.69	37	6.464	273	34.92	307	45.310	252	48.30	274	37.893	242	25.91	233
28.6	4.987	229	37.32	3	6.737	229	37.99	316	45.562	213	51.04	274	38.135	207	28.24	224
Aug. 7.6	5.216	185	37.29	$\overline{30}$	6.966	180	41.15	319	45.775	170	53.78	269	38.342	168	30.48	212
17.5	5.401	136	37.59	61	7.146	129	44.34	315	45.945	126	56.47	259	38.510	125	32.60	195
27.5	5.537	87	38.20	88	7.275	79	47.49	305	46.071	82	59.06	243	38.635	84	34.55	176
Sept. 6.5	5.624	39	39.08	109	7.354	29	50.54	290	46.153	39	61.49	224	38.719	43	36.31	154
16.5	5.663	$\overline{7}$	40.17	125	7.383	$\overline{17}$	53.44	268	46.192	$\overline{2}$	63.73	201	38.762	4	37.85	129
26.4	5.656	48	41.42	135	7.366	60	56.12	242	46.190	38	65.74	174	38.766	$\overline{29}$	39.14	106
Okt. 6.4	5.608	84	42.77	137	7.306	96	58.54	212	46.152	69	67.48	147	38.737	58	40.20	80
16.4	5.524	111	44.14	133	7.210	128	60.66	177	46.083	95	68.95	115	38.679	82	41.00	55
26.3	5.413	132	45.47	123	7.082	152	62.43	138	45.988	115	70.10	82	38.597	100	41.55	29
Nov. 5.3	5.281	144	46.70	106	6.930	170	63.81	96	45.873	129	70.92	49	38.497	111	41.84	6
15.3	5.137	149	47.76	86	6.760	182	64.77	51	45.744	136	71.41	14	38.386	118	41.90	$\overline{19}$
25.3	4.988	147	48.62	62	6.578	187	65.28	6	45.608	140	71.55	$\overline{21}$	38.268	119	41.71	43
Dez. 5.2	4.841	139	49.24	34	6.391	187	65.34	$\overline{40}$	45.468	137	71.34	55	38.149	115	41.28	63
15.2	4.702	125	49.58	6	6.204	179	64.94	85	45.331	130	70.79	87	38.034	109	40.65	83
25.2	4.577	106	49.64	$\overline{22}$	6.025	166	64.09	127	45.201	119	69.92	117	37.925	97	39.82	100
35.2	4.471		49.42		5.859		62.82		45.082		68.75		37.828		38.82	
Mittl. Ort	0.694		63.63		3.181		27.12		41.995		36.73		34.518		10.86	
sec δ, tg δ	1.155		−0.579		1.343		+0.896		1.129		+0.523		1.034		+0.263	

Mittlere Zeit Greenw.	872) ϑ Gruis				873) c^2 Aquarii				874) π Cephei				875) Br. 3077			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	23ʰ 2ᵐ		−43° 57′		23ʰ 4ᵐ		−21° 37′		23ʰ 5ᵐ		+74° 55′		23ʰ 9ᵐ		+56° 42′	
Jan. 1.2	9.561	136	98.13	91	58.608	87	47.23	5	10.51	68	81.47	126	13.192	254	34.78	138
11.2	9.425	109	97.22	129	58.521	67	47.18	27	9.83	61	80.21	180	12.938	224	33.40	185
21.1	9.316	76	95.93	163	58.454	45	46.91	50	9.22	52	78.41	228	12.714	184	31.55	222
31.1	9.240	41	94.30	194	58.409	20	46.41	73	8.70	40	76.13	266	12.530	135	29.33	252
Feb. 10.1	9.199	2	92.36	222	58.389	8	45.68	96	8.30	26	73.47	293	12.395	77	26.81	271
20.0	9.197	39	90.14	244	58.397	39	44.72	118	8.04	11	70.54	308	12.318	13	24.10	277
März 1.0	9.236	82	87.70	262	58.436	72	43.54	140	7.93	4	67.46	310	12.305	57	21.33	273
11.0	9.318	127	85.08	275	58.508	107	42.14	159	7.97	20	64.36	299	12.362	129	18.60	257
21.0	9.445	172	82.33	282	58.615	145	40.55	178	8.17	36	61.37	276	12.491	202	16.03	229
30.9	9.617	217	79.51	285	58.760	182	38.77	194	8.53	49	58.61	242	12.693	270	13.74	193
Apr. 9.9	9.834	261	76.66	282	58.942	218	36.83	207	9.02	63	56.19	198	12.963	334	11.81	149
19.9	10.095	302	73.84	273	59.160	252	34.76	215	9.65	73	54.21	149	13.297	390	10.32	98
29.9	10.397	337	71.11	257	59.412	282	32.61	220	10.38	81	52.72	93	13.687	435	9.34	44
Mai 9.8	10.734	366	68.54	238	59.694	306	30.41	220	11.19	88	51.79	35	14.122	469	8.90	11
19.8	11.100	389	66.16	211	60.000	324	28.21	213	12.07	91	51.44	25	14.591	491	9.01	66
29.8	11.489	401	64.05	181	60.324	334	26.08	203	12.98	91	51.69	83	15.082	497	9.67	120
Juni 8.7	11.890	404	62.24	145	60.658	337	24.05	187	13.89	89	52.52	139	15.579	492	10.87	171
18.7	12.294	397	60.79	106	60.995	331	22.18	166	14.78	85	53.91	192	16.071	474	12.58	216
28.7	12.691	379	59.73	65	61.326	315	20.52	142	15.63	79	55.83	240	16.545	444	14.74	256
Juli 8.7	13.070	351	59.08	23	61.641	293	19.10	113	16.42	70	58.23	281	16.989	404	17.30	291
18.6	13.421	315	58.85	19	61.934	263	17.97	83	17.12	60	61.04	316	17.393	354	20.21	317
28.6	13.736	270	59.04	61	62.197	226	17.14	52	17.72	49	64.20	344	17.747	298	23.38	337
Aug. 7.6	14.006	219	59.65	98	62.423	185	16.62	20	18.21	38	67.64	364	18.045	236	26.75	350
17.6	14.225	163	60.63	131	62.608	141	16.42	10	18.59	24	71.28	378	18.281	173	30.25	356
27.5	14.388	104	61.94	160	62.749	96	16.52	38	18.83	11	75.06	383	18.454	108	33.81	353
Sept. 6.5	14.492	46	63.54	179	62.845	51	16.90	61	18.94	1	78.89	380	18.562	44	37.34	345
16.5	14.538	9	65.33	192	62.896	9	17.51	82	18.93	14	82.69	370	18.606	18	40.79	328
26.4	14.529	62	67.25	197	62.905	30	18.33	96	18.79	26	86.39	351	18.588	74	44.07	306
Okt. 6.4	14.467	106	69.22	192	62.875	63	19.29	104	18.53	36	89.90	327	18.514	127	47.13	278
16.4	14.361	143	71.14	179	62.812	89	20.33	109	18.17	47	93.17	292	18.387	172	49.91	243
26.4	14.218	172	72.93	158	62.723	110	21.42	105	17.70	56	96.09	253	18.215	210	52.34	202
Nov. 5.3	14.046	190	74.51	130	62.613	122	22.47	98	17.14	63	98.62	205	18.005	241	54.36	157
15.3	13.856	199	75.81	97	62.491	129	23.45	86	16.51	69	100.67	152	17.764	264	55.93	107
25.3	13.657	200	76.78	58	62.362	129	24.31	71	15.82	73	102.19	95	17.500	279	57.00	55
Dez. 5.3	13.457	192	77.36	19	62.233	123	25.02	52	15.09	75	103.14	33	17.221	285	57.55	1
15.2	13.265	177	77.55	24	62.110	114	25.54	32	14.34	74	103.47	29	16.936	281	57.54	56
25.2	13.088	156	77.31	64	61.996	100	25.86	11	13.60	71	103.18	90	16.655	267	56.98	108
35.2	12.932		76.67		61.896		25.97		12.89		102.28		16.388		55.90	
Mittl. Ort	9.073		87.98		58.180		42.93		13.32		59.72		13.940		15.65	
sec δ, tg δ	1.390		−0.965		1.076		−0.396		3.847		+3.715		1.822		+1.522	

Mittlere Zeit Greenw.	877) γ Tucanae				879) γ Sculptoris				880) τ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$23^h\ 12^m$		$-58°\ 41'$		$23^h\ 14^m$		$-32°\ 58'$		$23^h\ 16^m$		$+23°\ 16'$	
Jan. 1.2	$32^s.612$	243	$60''.07$	136	$17^s.995$	112	$90''.84$	41	$28^s.771$	106	$59''.62$	115
11.2	32.369	202	58.71	182	17.883	91	90.43	73	28.665	90	58.47	134
21.1	32.167	157	56.89	223	17.792	67	89.70	104	28.575	71	57.13	147
31.1	32.010	106	54.66	259	17.725	39	88.66	133	28.504	47	55.66	154
Feb. 10.1	31.904	51	52.07	288	17.686	8	87.33	160	28.457	17	54.12	154
20.0	31.853	8	49.19	311	17.678	26	85.73	184	28.440	16	52.58	146
März 1.0	31.861	68	46.08	327	17.704	62	83.89	205	28.456	53	51.12	130
11.0	31.929	130	42.81	335	17.766	101	81.84	223	28.509	93	49.82	107
21.0	32.059	193	39.46	338	17.867	142	79.61	237	28.602	134	48.75	79
30.9	32.252	254	36.08	332	18.009	183	77.24	248	28.736	175	47.96	46
Apr. 9.9	32.506	313	32.76	321	18.192	222	74.76	253	28.911	216	47.50	8
19.9	32.819	368	29.55	303	18.414	261	72.23	254	29.127	252	47.42	32
29.9	33.187	417	26.52	279	18.675	294	69.69	249	29.379	284	47.74	70
Mai 9.8	33.604	458	23.73	247	18.969	321	67.20	239	29.663	309	48.44	109
19.8	34.062	489	21.26	211	19.290	344	64.81	223	29.972	327	49.53	145
29.8	34.551	508	19.15	171	19.634	357	62.58	202	30.299	337	50.98	176
Juni 8.7	35.059	516	17.44	125	19.991	361	60.56	175	30.636	338	52.74	204
18.7	35.575	510	16.19	77	20.352	357	58.81	146	30.974	330	54.78	226
28.7	36.085	491	15.42	28	20.709	343	57.35	111	31.304	315	57.04	242
Juli 8.7	36.576	458	15.14	22	21.052	320	56.24	75	31.619	291	59.46	252
18.6	37.034	413	15.36	71	21.372	290	55.49	37	31.910	260	61.98	257
28.6	37.447	357	16.07	116	21.662	252	55.12	1	32.170	225	64.55	255
Aug. 7.6	37.804	291	17.23	158	21.914	208	55.13	37	32.395	185	67.10	248
17.6	38.095	217	18.81	193	22.122	161	55.50	71	32.580	143	69.58	236
27.5	38.312	139	20.74	221	22.283	111	56.21	100	32.723	101	71.94	221
Sept. 6.5	38.451	60	22.95	240	22.394	61	57.21	125	32.824	59	74.15	202
16.5	38.511	19	25.35	250	22.455	14	58.46	144	32.883	19	76.17	180
26.4	38.492	92	27.85	249	22.469	31	59.90	154	32.902	17	77.97	155
Okt. 6.4	38.400	159	30.34	238	22.438	69	61.44	158	32.885	48	79.52	128
16.4	38.241	216	32.72	217	22.369	101	63.02	155	32.837	75	80.80	100
26.4	38.025	262	34.89	186	22.268	125	64.57	144	32.762	95	81.80	71
Nov. 5.3	37.763	294	36.75	147	22.143	143	66.01	126	32.667	111	82.51	41
15.3	37.469	313	38.22	103	22.000	152	67.27	103	32.556	121	82.92	10
25.3	37.156	319	39.25	53	21.848	155	68.30	77	32.435	126	83.02	19
Dez. 5.3	36.837	313	39.78	1	21.693	150	69.07	46	32.309	127	82.83	49
15.2	36.524	296	39.79	53	21.543	141	69.53	14	32.182	123	82.34	78
25.2	36.228	268	39.26	103	21.402	127	69.67	20	32.059	115	81.56	103
35.2	35.960		38.23		21.275		69.47		31.944		80.53	
Mittl. Ort	32.029		47.20		17.466		83.45		28.633		49.07	
sec δ, tg δ	1.925		−1.644		1.192		−0.649		1.089		+0.430	

Mittlere Zeit Greenw.	882) 4 Cassiopejae AR.		882) Dekl.		884) κ Piscium AR.		884) Dekl.		885) 70 Pegasi AR.		885) Dekl.	
	$23^h\ 21^m$		$+61°\ 49'$		$23^h\ 22^m$		$+0°\ 47'$		$23^h\ 24^m$		$+12°\ 17'$	
Jan. 1.2	5.12	33	38.00	121	37.964	86	47.34	68	54.613	94	56.16	92
11.2	4.79	30	36.79	172	37.878	72	46.66	65	54.519	80	55.24	101
21.1	4.49	26	35.07	215	37.806	55	46.01	58	54.439	63	54.23	105
31.1	4.23	20	32.92	250	37.751	35	45.43	49	54.376	42	53.18	103
Feb. 10.1	4.03	13	30.42	273	37.716	9	44.94	35	54.334	17	52.15	97
20.0	3.90	5	27.69	286	37.707	19	44.59	19	54.317	13	51.18	85
März 1.0	3.85	2	24.83	286	37.726	50	44.40	2	54.330	47	50.33	67
11.0	3.87	11	21.97	274	37.776	85	44.42	26	54.377	83	49.66	44
21.0	3.98	19	19.23	251	37.861	122	44.68	51	54.460	121	49.22	17
30.9	4.17	28	16.72	218	37.983	160	45.19	77	54.581	160	49.05	13
Apr. 9.9	4.45	35	14.54	176	38.143	196	45.96	105	54.741	199	49.18	45
19.9	4.80	42	12.78	127	38.339	230	47.01	130	54.940	235	49.63	78
29.9	5.22	47	11.51	75	38.569	261	48.31	154	55.175	265	50.41	111
Mai 9.8	5.69	52	10.76	18	38.830	286	49.85	174	55.440	292	51.52	140
19.8	6.21	54	10.58	38	39.116	305	51.59	190	55.732	310	52.92	166
29.8	6.75	56	10.96	94	39.421	317	53.49	202	56.042	323	54.58	189
Juni 8.8	7.31	55	11.90	146	39.738	320	55.51	208	56.365	325	56.47	207
18.7	7.86	53	13.36	196	40.058	317	57.59	209	56.690	320	58.54	218
28.7	8.39	50	15.32	239	40.375	303	59.68	205	57.010	308	60.72	225
Juli 8.7	8.89	46	17.71	278	40.678	284	61.73	195	57.318	286	62.97	226
18.6	9.35	41	20.49	309	40.962	256	63.68	182	57.604	259	65.23	222
28.6	9.76	35	23.58	333	41.218	223	65.50	164	57.863	227	67.45	212
Aug. 7.6	10.11	27	26.91	350	41.441	188	67.14	143	58.090	189	69.57	199
17.6	10.38	21	30.41	360	41.629	149	68.57	120	58.279	150	71.56	183
27.5	10.59	13	34.01	363	41.778	107	69.77	96	58.429	109	73.39	162
Sept. 6.5	10.72	6	37.64	358	41.885	68	70.73	72	58.538	69	75.01	141
16.5	10.78	1	41.22	346	41.953	29	71.45	49	58.607	31	76.42	118
26.4	10.77	8	44.68	327	41.982	6	71.94	27	58.638	5	77.60	94
Okt. 6.4	10.69	14	47.95	301	41.976	35	72.21	6	58.633	34	78.54	70
16.4	10.55	20	50.96	268	41.941	61	72.27	12	58.599	60	79.24	47
26.4	10.35	24	53.64	230	41.880	81	72.15	27	58.539	80	79.71	24
Nov. 5.3	10.11	28	55.94	184	41.799	94	71.88	40	58.459	96	79.95	2
15.3	9.83	32	57.78	135	41.705	104	71.48	50	58.363	105	79.97	19
25.3	9.51	34	59.13	81	41.601	107	70.98	59	58.258	110	79.78	39
Dez. 5.3	9.17	35	59.94	24	41.494	108	70.39	65	58.148	112	79.39	56
15.2	8.82	35	60.18	33	41.386	103	69.74	69	58.036	109	78.83	73
25.2	8.47	35	59.85	89	41.283	95	69.05	70	57.927	102	78.10	87
35.2	8.12		58.96		41.188		68.35		57.825		77.23	
Mittl. Ort	6.00		17.25		37.576		44.05		54.306		48.91	
sec δ, tg δ	2.118		+1.867		1.000		+0.014		1.023		+0.218	

Mittlere Zeit Greenw.	891) ι Andromedae AR.		891) ι Andromedae Dekl.		892) ι Piscium AR.		892) ι Piscium Dekl.		893) γ Cephei AR.		893) γ Cephei Dekl.	
	23h 34m		+42° 48'		23h 35m		+5° 10'		23h 35m		+77° 9'	
Jan. 1.2	0.682	172	27.35	116	38.167	92	20.10	77	50.84	85	72.28	80
11.2	0.510	157	26.19	153	38.075	80	19.33	78	49.99	79	71.48	139
21.2	0.353	134	24.66	185	37.995	66	18.55	76	49.20	69	70.09	193
31.1	0.219	105	22.81	208	37.929	46	17.79	69	48.51	58	68.16	238
Feb. 10.1	0.114	67	20.73	222	37.883	22	17.10	59	47.93	43	65.78	272
20.1	0.047	25	18.51	228	37.861	5	16.51	44	47.50	27	63.06	296
März 1.0	0.022	25	16.23	222	37.866	37	16.07	25	47.23	9	60.10	308
11.0	0.047	76	14.01	207	37.903	73	15.82	2	47.14	10	57.02	305
21.0	0.123	131	11.94	182	37.976	110	15.80	23	47.24	28	53.97	291
31.0	0.254	185	10.12	149	38.086	148	16.03	51	47.52	46	51.06	265
Apr. 9.9	0.439	237	8.63	110	38.234	187	16.54	79	47.98	62	48.41	229
19.9	0.676	284	7.53	66	38.421	223	17.33	108	48.60	77	46.12	185
29.9	0.960	325	6.87	18	38.644	255	18.41	135	49.37	88	44.27	134
Mai 9.9	1.285	358	6.69	30	38.899	282	19.76	158	50.25	97	42.93	79
19.8	1.643	382	6.99	78	39.181	303	21.34	179	51.22	103	42.14	21
29.8	2.025	395	7.77	125	39.484	316	23.13	195	52.25	106	41.93	38
Juni 8.8	2.420	398	9.02	168	39.800	323	25.08	206	53.31	106	42.31	95
18.7	2.818	390	10.70	206	40.123	319	27.14	211	54.37	103	43.26	149
28.7	3.208	374	12.76	239	40.442	308	29.25	211	55.40	98	44.75	200
Juli 8.7	3.582	347	15.15	266	40.750	291	31.36	206	56.38	90	46.75	247
18.7	3.929	314	17.81	287	41.041	265	33.42	197	57.28	79	49.22	286
28.6	4.243	273	20.68	302	41.306	234	35.39	181	58.07	68	52.08	320
Aug. 7.6	4.516	228	23.70	309	41.540	198	37.20	164	58.75	56	55.28	348
17.6	4.744	180	26.79	310	41.738	160	38.84	144	59.31	42	58.76	366
27.5	4.924	131	29.89	306	41.898	120	40.28	121	59.73	27	62.42	379
Sept. 6.5	5.055	81	32.95	295	42.018	81	41.49	98	60.00	13	66.21	384
16.5	5.136	34	35.90	279	42.099	43	42.47	74	60.13	2	70.05	380
26.5	5.170	10	38.69	257	42.142	8	43.21	51	60.11	16	73.85	369
Okt. 6.4	5.160	50	41.26	231	42.150	23	43.72	29	59.95	30	77.54	350
16.4	5.110	86	43.57	201	42.127	49	44.01	10	59.65	43	81.04	323
26.4	5.024	116	45.58	166	42.078	70	44.11	9	59.22	55	84.27	288
Nov. 5.4	4.908	141	47.24	127	42.008	86	44.02	26	58.67	65	87.15	246
15.3	4.767	161	48.51	85	41.922	97	43.76	40	58.02	74	89.61	197
25.3	4.606	174	49.36	42	41.825	104	43.36	52	57.28	82	91.58	142
Dez. 5.3	4.432	182	49.78	3	41.721	106	42.84	62	56.46	85	93.00	82
15.2	4.250	184	49.75	49	41.615	104	42.22	71	55.61	88	93.82	20
25.2	4.066	180	49.26	92	41.511	100	41.51	76	54.73	87	94.02	43
35.2	3.886		48.34		41.411		40.75		53.86		93.59	
Mittl. Ort	0.724		10.30		37.736		14.96		53.35		48.60	
sec δ, tg δ	1.363		+0.926		1.004		+0.090		4.501		+4.388	

Mittlere Zeit Greenw.	894) ω² Aquarii AR.		894) ω² Aquarii Dekl.		895) 41 H. Cephei AR.		895) 41 H. Cephei Dekl.		896) Lac. δ Sculptoris AR.		896) Lac. δ Sculptoris Dekl.	
	23h 38m		−15° 0′		23h 43m		+67° 20′		23h 44m		−28° 35′	
Jan. 1.2	22.620	97	35.69	28	52.19	44	46.93	86	33.834	119	47.43	7
11.2	22.523	84	35.97	9	51.75	42	46.07	142	33.715	106	47.36	39
21.1	22.439	69	36.06	11	51.33	37	44.65	191	33.609	88	46.97	70
31.1	22.370	49	35.95	33	50.96	30	42.74	233	33.521	65	46.27	100
Feb. 10.1	22.321	24	35.62	54	50.66	23	40.41	264	33.456	40	45.27	128
20.1	22.297	3	35.08	77	50.43	14	37.77	284	33.416	9	43.99	155
März 1.0	22.300	35	34.31	99	50.29	4	34.93	294	33.407	25	42.44	179
11.0	22.335	69	33.32	123	50.25	6	31.99	289	33.432	62	40.65	201
21.0	22.404	106	32.09	145	50.31	18	29.10	273	33.494	103	38.64	220
31.0	22.510	145	30.64	165	50.49	27	26.37	247	33.597	143	36.44	235
Apr. 9.9	22.655	184	28.99	183	50.76	37	23.90	210	33.740	185	34.09	246
19.9	22.839	219	27.16	199	51.13	46	21.80	166	33.925	225	31.63	253
29.9	23.058	253	25.17	210	51.59	54	20.14	116	34.150	261	29.10	253
Mai 9.8	23.311	282	23.07	217	52.13	59	18.98	61	34.411	293	26.57	249
19.8	23.593	304	20.90	220	52.72	64	18.37	5	34.704	318	24.08	239
29.8	23.897	320	18.70	215	53.36	66	18.32	51	35.022	337	21.69	223
Juni 8.8	24.217	327	16.55	207	54.02	65	18.83	107	35.359	346	19.46	202
18.7	24.544	326	14.48	193	54.67	65	19.90	159	35.705	348	17.44	175
28.7	24.870	317	12.55	173	55.32	62	21.49	206	36.053	340	15.69	145
Juli 8.7	25.187	299	10.82	151	55.94	58	23.55	250	36.393	323	14.24	110
18.7	25.486	275	9.31	124	56.52	52	26.05	287	36.716	298	13.14	74
28.6	25.761	244	8.07	96	57.04	45	28.92	318	37.014	266	12.40	36
Aug. 7.6	26.005	207	7.11	65	57.49	38	32.10	341	37.280	228	12.04	2
17.6	26.212	168	6.46	34	57.87	29	35.51	358	37.508	185	12.06	38
27.5	26.380	127	6.12	5	58.16	21	39.09	366	37.693	140	12.44	71
Sept. 6.5	26.507	84	6.07	22	58.37	13	42.75	369	37.833	94	13.15	99
16.5	26.591	44	6.29	46	58.50	4	46.44	363	37.927	48	14.14	124
26.5	26.635	6	6.75	66	58.54	5	50.07	350	37.975	6	15.38	140
Okt. 6.4	26.641	27	7.41	82	58.49	12	53.57	329	37.981	33	16.78	151
16.4	26.614	55	8.23	91	58.37	20	56.86	301	37.948	66	18.29	153
26.4	26.559	78	9.14	96	58.17	27	59.87	267	37.882	93	19.82	149
Nov. 5.4	26.481	96	10.10	96	57.90	32	62.54	225	37.789	114	21.31	138
15.3	26.385	107	11.06	92	57.58	37	64.79	176	37.675	128	22.69	121
25.3	26.278	113	11.98	83	57.21	41	66.55	124	37.547	136	23.90	99
Dez. 5.3	26.165	115	12.81	71	56.80	44	67.79	67	37.411	140	24.89	73
15.2	26.050	113	13.52	57	56.36	45	68.46	8	37.271	136	25.62	44
25.2	25.937	106	14.09	41	55.91	45	68.54	52	37.135	130	26.06	14
35.2	25.831		14.50		55.46		68.02		37.005		26.20	
Mittl. Ort	22.045		34.05		53.08		24.14		33.150		41.67	
sec δ, tg δ	1.035		−0.268		2.596		+2.395		1.139		−0.545	

Mittlere Zeit Greenw.	898) φ Pegasi AR.		898) φ Pegasi Dekl.		902) ω Piscium AR.		902) ω Piscium Dekl.		903) ε Tucanae AR.		903) ε Tucanae Dekl.	
	23h 48m		+18° 39′		23h 54m		+6° 23′		23h 55m		−66° 2′	
Jan. 1.2	13.136	108	23.40	92	60.340	99	59.76	75	34.59	40	53.88	111
11.2	13.028	100	22.48	107	60.241	91	59.01	77	34.19	37	52.77	164
21.2	12.928	85	21.41	118	60.150	78	58.24	76	33.82	32	51.13	214
31.1	12.843	67	20.23	123	60.072	62	57.48	71	33.50	26	48.99	257
Feb. 10.1	12.776	43	19.00	123	60.010	40	56.77	61	33.24	19	46.42	293
20.1	12.733	13	17.77	115	59.970	14	56.16	48	33.05	13	43.49	324
März 1.0	12.720	21	16.62	102	59.956	17	55.68	31	32.92	5	40.25	346
11.0	12.741	59	15.60	82	59.973	52	55.37	9	32.87	3	36.79	359
21.0	12.800	100	14.78	57	60.025	91	55.28	16	32.90	11	33.20	367
31.0	12.900	142	14.21	27	60.116	130	55.44	43	33.01	19	29.53	366
Apr. 9.9	13.042	183	13.94	5	60.246	169	55.87	71	33.20	28	25.87	357
19.9	13.225	222	13.99	40	60.415	208	56.58	99	33.48	35	22.30	341
29.9	13.447	258	14.39	75	60.623	242	57.57	127	33.83	42	18.89	317
Mai 9.9	13.705	287	15.14	109	60.865	273	58.84	151	34.25	49	15.72	287
19.8	13.992	311	16.23	140	61.138	296	60.35	173	34.74	55	12.85	251
29.8	14.303	326	17.63	169	61.434	313	62.08	190	35.29	58	10.34	208
Juni 8.8	14.629	333	19.32	192	61.747	321	63.98	202	35.87	60	8.26	161
18.7	14.962	331	21.24	211	62.068	322	66.00	210	36.47	62	6.65	110
28.7	15.293	321	23.35	224	62.390	314	68.10	212	37.09	61	5.55	57
Juli 8.7	15.614	304	25.59	233	62.704	298	70.22	208	37.70	58	4.98	2
18.7	15.918	279	27.92	234	63.002	276	72.30	200	38.28	55	4.96	53
28.6	16.197	247	30.26	231	63.278	248	74.30	187	38.83	50	5.49	105
Aug. 7.6	16.444	213	32.57	224	63.526	214	76.17	170	39.33	42	6.54	153
17.6	16.657	174	34.81	211	63.740	177	77.87	150	39.75	34	8.07	196
27.6	16.831	134	36.92	195	63.917	139	79.37	129	40.09	25	10.03	233
Sept. 6.5	16.965	94	38.87	176	64.056	100	80.66	106	40.34	16	12.36	259
16.5	17.059	55	40.63	155	64.156	62	81.72	82	40.50	5	14.95	277
26.5	17.114	19	42.18	132	64.218	27	82.54	59	40.55	4	17.72	283
Okt. 6.5	17.133	12	43.50	108	64.245	4	83.13	37	40.51	14	20.55	278
16.4	17.121	41	44.58	83	64.241	32	83.50	16	40.37	22	23.33	261
26.4	17.080	64	45.41	58	64.209	55	83.66	2	40.15	30	25.94	234
Nov. 5.4	17.016	84	45.99	33	64.154	74	83.64	19	39.85	36	28.28	197
15.3	16.932	98	46.32	8	64.080	88	83.45	35	39.49	40	30.25	151
25.3	16.834	108	46.40	17	63.992	97	83.10	47	39.09	43	31.76	99
Dez. 5.3	16.726	114	46.23	41	63.895	103	82.63	58	38.66	44	32.75	43
15.3	16.612	116	45.82	63	63.792	106	82.05	67	38.22	44	33.18	15
25.2	16.496	114	45.19	83	63.686	104	81.38	74	37.78	42	33.03	74
35.2	16.382		44.36		63.582		80.64		37.36		32.29	
Mittl. Ort	12.739		13.27		59.803		53.67		33.54		40.21	
sec δ, tg δ	1.055		+0.337		1.006		+0.112		2.463		−2.251	

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 29^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 20′	in ″ 0.01
Jan. 1	$60\overset{s}{.}63$	0	$52\overset{″}{.}45$	−12	$50\overset{s}{.}96$	0	$51\overset{″}{.}78$	−12	$61\overset{s}{.}10$	− 7	$19\overset{″}{.}80$	−11
2	60.35	+ 5	52.52	− 9	49.97	+17	51.91	−10	61.00	− 2	20.08	−11
3	60.08	+ 9	52.60	− 4	48.97	+30	52.02	− 6	60.89	+ 3	20.36	− 9
4	59.80	+10	52.66	+ 2	47.96	+36	52.14	0	60.77	+ 6	20.64	− 6
5	59.52	+ 9	52.72	+ 7	46.94	+33	52.26	+ 5	60.65	+10	20.91	0
6	59.24	+ 6	52.77	+11	45.92	+23	52.37	+10	60.53	+10	21.18	+ 5
7	58.96	+ 2	52.82	+12	44.89	+ 7	52.46	+12	60.40	+ 9	21.44	+10
8	58.67	− 3	52.86	+12	43.86	− 9	52.56	+11	60.26	+ 6	21.70	+11
9	58.39	− 6	52.90	+ 9	42.82	−22	52.65	+10	60.13	+ 1	21.96	+12
10	58.11	− 8	52.93	+ 5	41.78	−29	52.73	+ 6	59.99	− 2	22.21	+10
11	57.83	− 8	52.96	0	40.74	−29	52.81	+ 1	59.84	− 5	22.46	+ 5
12	57.54	− 6	52.97	− 3	39.69	−23	52.87	− 4	59.69	− 6	22.71	+ 1
13	57.26	− 3	52.98	− 6	38.64	−12	52.93	− 6	59.54	− 6	22.94	− 4
14	56.98	+ 1	52.98	− 7	37.58	+ 2	52.98	− 7	59.38	− 4	23.18	− 7
15	56.70	+ 4	52.97	− 7	36.53	+15	53.02	− 7	59.22	− 1	23.41	− 9
16	56.42	+ 7	52.96	− 5	35.47	+25	53.06	− 5	59.05	+ 2	23.63	− 9
17	56.14	+ 9	52.96	− 2	34.41	+31	53.10	− 3	58.88	+ 4	23.84	− 9
18	55.85	+ 9	52.94	+ 1	33.35	+31	53.13	+ 1	58.71	+ 6	24.06	− 5
19	55.57	+ 8	52.91	+ 4	32.29	+26	53.16	+ 4	58.53	+ 7	24.28	− 2
20	55.29	+ 5	52.87	+ 7	31.22	+17	53.17	+ 5	58.35	+ 7	24.49	+ 3
21	55.01	+ 1	52.83	+ 7	30.16	+ 4	53.18	+ 6	58.16	+ 5	24.69	+ 6
22	54.74	− 3	52.78	+ 7	29.10	−10	53.18	+ 7	57.97	+ 2	24.89	+ 8
23	54.46	− 7	52.72	+ 4	28.04	−24	53.17	+ 5	57.78	− 2	25.08	+ 8
24	54.18	−10	52.65	+ 1	26.98	−34	53.16	+ 2	57.59	− 6	25.27	+ 8
25	53.91	−11	52.58	− 4	25.93	−38	53.14	− 3	57.39	− 9	25.45	+ 6
26	53.64	− 9	52.50	− 8	24.87	−34	53.12	− 7	57.19	−11	25.62	+ 1
27	53.37	− 6	52.43	−12	23.82	−23	53.09	−10	56.99	−11	25.79	− 3
28	53.10	− 2	52.34	−13	22.77	− 7	53.06	−11	56.78	− 9	25.95	− 8
29	52.83	+ 3	52.24	−11	21.72	+10	53.02	−11	56.57	− 5	26.11	−11
30	52.56	+ 7	52.14	− 8	20.68	+25	52.97	− 8	56.36	+ 1	26.27	−10
31	52.30	+10	52.04	− 3	19.64	+34	52.91	− 3	56.14	+ 5	26.43	−10
Febr. 1	52.03	+10	51.92	+ 3	18.61	+35	52.85	+ 3	55.92	+ 9	26.57	− 4
2	51.77	+ 7	51.80	+ 8	17.58	+27	52.77	+ 7	55.70	+10	26.70	+ 2
3	51.51	+ 3	51.67	+11	16.56	+13	52.69	+10	55.48	+ 9	26.83	+ 6
4	51.26	− 1	51.55	+12	15.54	− 3	52.62	+11	55.25	+ 6	26.96	+10
5	51.00	− 5	51.41	+10	14.53	−18	52.53	+10	55.02	+ 3	27.09	+12
6	50.75	− 8	51.27	+ 7	13.53	−28	52.43	+ 7	54.79	− 2	27.20	+11
7	50.50	− 9	51.12	+ 2	12.53	−31	52.34	+ 2	54.56	− 5	27.31	+ 8
sec δ, tg δ	13.70		+13.66		88° 51′ 50″ 60		50.435 50.558	+50.425 +50.548	12.31		+12.27	

1916	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 2^m$	in ^{s} 0.01	+87° 11′	in ″ 0.01	$9^h 25^m$	in ^{s} 0.01	+81° 41′	in ″ 0.01	$16^h 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Jan. 1	^{s}12.60	−17	″1.36	− 3	^{s}24.22	−6	″42.66	+ 3	^{s}21.86	+2	″22.81	+10
2	12.74	−12	1.67	− 7	24.35	−6	42.84	− 2	21.91	0	22.48	+11
3	12.88	− 5	1.99	−10	24.48	−4	43.03	− 7	21.97	−2	22.14	+ 9
4	13.00	+ 4	2.30	−10	24.60	−1	43.22	−10	22.03	−3	21.81	+ 6
5	13.12	+11	2.61	− 8	24.73	+2	43.41	−11	22.09	−4	21.48	+ 2
6	13.22	+16	2.92	− 4	24.85	+5	43.61	−10	22.16	−4	21.16	− 4
7	13.32	+18	3.24	+ 1	24.97	+7	43.81	− 6	22.23	−3	20.85	− 8
8	13.41	+16	3.55	+ 6	25.09	+7	44.01	− 2	22.30	−1	20.54	−10
9	13.49	+12	3.86	+ 9	25.21	+6	44.22	+ 2	22.37	0	20.22	−11
10	13.56	+ 6	4.17	+10	25.32	+4	44.43	+ 5	22.45	+1	19.92	− 9
11	13.62	− 1	4.48	+ 9	25.44	+2	44.64	+ 7	22.53	+2	19.61	− 5
12	13.68	− 6	4.80	+ 5	25.55	−1	44.86	+ 7	22.62	+2	19.31	− 1
13	13.72	− 9	5.10	+ 2	25.65	−3	45.09	+ 5	22.70	+2	19.00	+ 4
14	13.75	−10	5.42	− 2	25.75	−4	45.32	+ 2	22.79	+1	18.70	+ 7
15	13.78	− 9	5.73	− 6	25.85	−4	45.56	− 2	22.88	0	18.42	+ 8
16	13.79	− 6	6.05	− 9	25.95	−4	45.79	− 5	22.97	−1	18.13	+ 9
17	13.80	− 2	6.36	− 9	26.05	−3	46.02	− 7	23.07	−2	17.84	+ 8
18	13.80	+ 3	6.68	− 9	26.14	−1	46.26	− 8	23.17	−3	17.56	+ 5
19	13.79	+ 7	6.99	− 7	26.23	+1	46.51	− 8	23.27	−3	17.29	+ 1
20	13.77	+10	7.30	− 3	26.32	+3	46.76	− 6	23.38	−2	17.02	− 3
21	13.74	+10	7.61	+ 1	26.41	+4	47.02	− 3	23.48	−1	16.76	− 6
22	13.70	+ 9	7.91	+ 5	26.49	+4	47.27	+ 1	23.59	0	16.50	− 8
23	13.65	+ 5	8.22	+ 9	26.57	+4	47.53	+ 5	23.70	+2	16.25	− 9
24	13.60	− 1	8.53	+11	26.64	+2	47.79	+ 9	23.81	+3	15.99	− 8
25	13.53	− 7	8.84	+10	26.72	0	48.05	+11	23.93	+4	15.74	− 5
26	13.46	−13	9.14	+ 8	26.79	−3	48.32	+11	24.05	+4	15.49	− 1
27	13.38	−17	9.45	+ 4	26.86	−5	48.59	+ 9	24.17	+3	15.26	+ 4
28	13.28	−18	9.75	− 1	26.92	−6	48.86	+ 5	24.29	+2	15.03	+ 8
29	13.18	−15	10.05	− 6	26.98	−6	49.14	+ 1	24.41	+1	14.80	+10
30	13.07	− 9	10.35	− 9	27.04	−5	49.42	− 5	24.54	−1	14.57	+10
31	12.95	0	10.65	−11	27.10	−2	49.69	− 8	24.67	−2	14.35	+ 8
Febr. 1	12.83	+ 7	10.94	− 9	27.15	+1	49.97	− 9	24.80	−3	14.14	+ 3
2	12.69	+14	11.24	− 6	27.20	+4	50.26	− 9	24.93	−3	13.93	− 2
3	12.55	+17	11.53	− 1	27.25	+6	50.55	− 6	25.06	−3	13.72	− 6
4	12.40	+17	11.81	+ 4	27.29	+7	50.84	− 3	25.20	−2	13.53	−10
5	12.24	+13	12.09	+ 7	27.33	+6	51.13	+ 1	25.34	0	13.34	−12
6	12.07	+ 7	12.37	+ 9	27.37	+5	51.41	+ 5	25.47	+1	13.15	−10
7	11.90	+ 1	12.65	+ 8	27.40	+2	51.70	+ 6	25.61	+2	12.97	− 7
sec δ, tg δ	20.37		+20.34		6.92		+6.85		7.34		+7.27	

1916	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$ s	in s 0.01	+86° 36′ ″	in ″ 0.01	$19^h 2^m$ s	in s 0.01	+89° 0′ ″	in ″ 0.01	$20^h 48^m$ s	in s 0.01	+82° 13′ ″	in ″ 0.01
Jan. 1	52.89	+ 8	42.35	+ 7	8.41	+45	55.50	+ 1	33.44	+4	26.96	− 5
2	52.90	+ 4	42.01	+10	8.04	+38	55.18	+ 6	33.34	+4	26.70	+ 1
3	52.91	− 2	41.66	+11	7.69	+23	54.86	+ 9	33.24	+4	26.44	+ 7
4	52.93	− 7	41.33	+ 8	7.37	+ 3	54.54	+10	33.14	+3	26.18	+10
5	52.96	−10	41.00	+ 4	7.07	−18	54.22	+ 8	33.05	+1	25.91	+11
6	53.00	−12	40.67	− 1	6.80 6.55	−35 −45	53.89 53.57	+ 6 + 2	32.96	−1	25.66	+11
7	53.04	−11	40.34	− 6	6.33	−46	53.25	− 2	32.87	−3	25.39	+ 7
8	53.09	− 8	40.01	− 9	6.13	−38	52.93	− 7	32.79	−4	25.11	+ 1
9	53.15	− 4	39.70	−10	5.96	−24	52.61	− 9	32.70	−5	24.83	− 2
10	53.22	+ 1	39.38	− 9	5.82	− 8	52.29	− 8	32.62	−4	24.56	− 5
11	53.29	+ 4	39.05	− 6	5.70	+ 8	51.97	− 6	32.55	−3	24.27	− 8
12	53.37	+ 6	38.73	− 2	5.60	+20	51.64	− 3	32.47	−1	23.98	− 8
13	53.46	+ 6	38.41	+ 2	5.53	+26	51.32	0	32.40	+1	23.69	− 6
14	53.55	+ 5	38.09	+ 6	5.49	+26	51.00	+ 3	32.33	+2	23.39	− 3
15	53.65	+ 3	37.77	+ 9	5.47	+21	50.68	+ 6	32.27	+3	23.09	0
16	53.77	0	37.46	+ 9	5.48	+11	50.35	+ 7	32.21	+4	22.79	+ 5
17	53.88	− 3	37.15	+ 9	5.52	0	50.02	+ 7	32.15	+3	22.51	+ 8
18	54.00	− 5	36.83	+ 7	5.58	−11	49.70	+ 7	32.09	+2	22.21	+ 9
19	54.13	− 7	36.52	+ 3	5.66	−20	49.39	+ 5	32.04	+1	21.90	+ 9
20	54.27	− 7	36.21	− 1	5.77	−26	49.06	+ 2	31.99	0	21.59	+ 8
21	54.41	− 6	35.91	− 5	5.91	−26	48.74	− 2	31.94	−2	21.27	+ 4
22	54.56	− 3	35.60	− 8	6.07	−20	48.41	− 5	31.89	−3	20.96	0
23	54.72	+ 1	35.30	− 9	6.26	− 8	48.10	− 8	31.85	−3	20.65	− 5
24	54.88	+ 5	35.01	−10	6.47	+ 8	47.79	− 9	31.81	−3	20.33	− 9
25	55.05	+ 9	34.71	− 8	6.70	+24	47.48	− 8	31.78	−2	20.02	−10
26	55.22	+11	34.43	− 4	6.97	+37	47.17	− 5	31.75	0	19.71	−11
27	55.40	+12	34.15	+ 1	7.26	+44	46.86	− 2	31.72	+2	19.39	−10
28	55.59	+10	33.87	+ 6	7.56	+42	46.54	+ 2	31.69	+3	19.06	− 6
29	55.78	+ 6	33.59	+ 9	7.90	+32	46.23	+ 6	31.67	+4	18.74	− 1
30	55.98	+ 1	33.32	+12	8.26	+14	45.94	+ 8	31.65	+5	18.42	+ 5
31	56.19	− 4	33.06	+10	8.64	− 6	45.64	+ 9	31.63	+4	18.09	+ 9
Febr. 1	56.41	− 8	32.79	+ 6	9.05	−25	45.33	+ 7	31.61	+2	17.77	+10
2	56.63	−11	32.52	+ 2	9.48	−39	45.03	+ 3	31.60 31.60	0 − 2	17.43 17.11	+10 + 8
3	56.85	−10	32.27	− 4	9.94	−44	44.72	− 1	31.59	−4	16.79	+ 4
4	57.08	− 8	32.02	− 8	10.41	−39	44.43	− 5	31.59	−5	16.46	0
5	57.32	− 5	31.77	−10	10.91	−28	44.13	− 6	31.59	−5	16.14	− 4
6	57.56	− 1	31.53	− 9	11.44	−13	43.85	− 7	31.60	−3	15.82	− 6
7	57.80	+ 3	31.29	− 8	11.98	+ 3	43.56	− 6	31.61	−2	15.50	− 7
sec δ, tg δ	16.91		+16.88		89° 0′ 40″ 50		57.942 58.106	+57.934 +58.097	7.39		+7.32	

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 28^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 20′	in ″ 0.01
Febr. 7	$50^s.50$	− 9	51″.12	+ 2	$72^s.53$	−31	52″.34	+ 2	$54^s.56$	− 5	27″.31	+ 8
8	50.26	− 8	50.96	− 3	71.54	−26	52.24	− 1	54.33	− 6	27.41	+ 4
9	50.02	− 5	50.81	− 6	70.56	−16	52.12	− 3	54.10	− 6	27.50	− 1
10	49.78	− 1	50.64	− 7	69.59	− 3	51.99	− 6	53.86	− 5	27.59	− 5
11	49.54	+ 3	50.47	− 8	68.63	+10	51.87	− 6	53.62	− 2	27.67	− 7
12	49.31	+ 6	50.29	− 6	67.67	+22	51.73	− 6	53.38	+ 1	27.75	− 9
13	49.08	+ 8	50.12	− 3	66.73	+29	51.59	− 3	53.13	+ 4	27.82	− 8
14	48.85	+ 9	49.94	0	65.79	+32	51.45	− 1	52.89	+ 6	27.89	− 7
15	48.63	+ 8	49.75	+ 3	64.87	+29	51.30	+ 2	52.65	+ 7	27.96	− 3
16	48.41	+ 6	49.55	+ 6	63.96	+21	51.14	+ 4	52.40	+ 7	28.01	0
17	48.19	+ 3	49.35	+ 7	63.06	+ 9	50.99	+ 7	52.16	+ 6	28.05	+ 3
18	47.98	− 1	49.14	+ 7	62.17	− 5	50.82	+ 8	51.91	+ 4	28.09	+ 7
19	47.77	− 5	48.94	+ 5	61.29	−19	50.64	+ 6	51.66	0	28.12	+ 9
20	47.57	− 8	48.72	+ 2	60.42	−31	50.47	+ 3	51.41	− 4	28.15	+ 8
21	47.37	−10	48.50	− 1	59.57	−37	50.28	0	51.16	− 8	28.18	+ 6
22	47.17	−10	48.28	− 6	58.73	−37	50.08	− 5	50.91	−10	28.19	+ 3
23	46.98	− 8	48.05	−10	57.90	−28	49.89	− 8	50.67	−11	28.20	− 2
24	46.79	− 4	47.82	−11	57.09	−13	49.69	−11	50.42	− 9	28.20	− 6
25	46.60	+ 1	47.58	−11	56.29	+ 5	49.49	−11	50.17	− 6	28.19	−10
26	46.42	+ 6	47.33	− 9	55.50	+21	49.27	− 8	49.91	− 1	28.19	−11
27	46.25	+ 9	47.10	− 4	54.73	+32	49.06	− 5	49.66	+ 4	28.17	−11
28	46.08	+10	46.85	+ 1	53.97	+35	48.86	0	49.41	+ 7	28.15	− 5
29	45.91	+ 8	46.58	+ 7	53.23	+30	48.64	+ 6	49.16	+10	28.11	− 1
März 1	45.75	+ 5	46.32	+10	52.50	+18	48.41	+ 9	48.91	+ 9	28.07	+ 5
2	45.59	0	46.07	+10	51.79	+ 2	48.17	+11	48.67	+ 7	28.03	+ 8
3	45.44	− 4	45.80	+10	51.10	−14	47.94	+10	48.42	+ 3	27.99	+11
4	45.29	− 7	45.53	+ 7	50.42	−26	47.70	+ 8	48.17	− 1	27.93	+10
5	45.15	− 9	45.26	+ 2	49.76	−32	47.47	+ 3	47.93	− 4	27.86	+10
6	45.01	− 8	44.99	− 1	49.11	−30	47.22	− 1	47.68	− 6	27.79	+ 5
7	44.88	− 6	44.71	− 4	48.48	−22	46.97	− 4	47.44	− 7	27.72	+ 2
8	44.75	− 2	44.43	− 6	47.87	− 9	46.71	− 6	47.19	− 6	27.65	− 4
9	44.63	+ 2	44.15	− 6	47.28	+ 5	46.46	− 7	46.95	− 3	27.57	− 6
10	44.51	+ 5	43.87	− 5	46.71	+18	46.20	− 6	46.71	0	27.48	− 8
11	44.40	+ 8	43.58	− 3	46.15	+27	45.93	− 4	46.47	+ 3	27.39	− 8
12	44.29	+ 9	43.30	0	45.61	+32	45.66	− 2	46.23	+ 5	27.29	− 8
13	44.19	+ 9	43.00	+ 2	45.09	+31	45.38	+ 2	46.00	+ 7	27.19	− 4
14	44.10	+ 7	42.70	+ 5	44.59	+25	45.11	+ 5	45.76	+ 7	27.07	− 1
15	44.01	+ 4	42.42	+ 7	44.11	+14	44.82	+ 6	45.53	+ 7	26.95	+ 2
sec δ, tg δ	13.70		+13.66		88° 51′ 40″ 50	50.312 50.435	+50.302 +50.425		12.31		+12.27	

1916	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 2^m$	in $0^s.01$	+87° 11′	in $0''.01$	$9^h 25^m$	in $0^s.01$	+81° 41′	in $0''.01$	$16^h 54^m$	in $0^s.01$	+82° 10′	in $0''.01$
Febr. 7	$11^s.90$	+ 1	$12''.65$	+ 8	$27^s.40$	+2	$51''.70$	+ 6	$25^s.61$	+2	$12''.97$	− 7
8	11.71	− 5	12.93	+ 6	27.43	0	52.00	+ 7	25.75	+2	12.79	− 2
9	11.52	− 9	13.21	+ 3	27.46	−2	52.29	+ 6	25.90	+2	12.62	+ 2
10	11.32	−10	13.47	− 1	27.48	−4	52.59	+ 3	26.04	+1	12.46	+ 6
11	11.11	−10	13.74	− 5	27.51	−4	52.89	0	26.19	0	12.31	+ 9
12	10.90	− 7	14.00	− 8	27.53	−4	53.19	− 3	26.33	−1	12.16	+10
13	10.67	− 3	14.26	− 9	27.54	−3	53.49	− 7	26.48	−2	12.02	+ 8
14	10.44	+ 2	14.52	− 9	27.55	−1	53.79	− 8	26.63	−3	11.89	+ 6
15	10.20	+ 6	14.77	− 8	27.56	0	54.09	− 8	26.78	−3	11.76	+ 3
16	9.96	+ 9	15.01	− 4	27.57	+2	54.39	− 6	26.93	−2	11.63	− 1
17	9.71	+11	15.26	0	27.57	+4	54.69	− 4	27.09	−2	11.51	− 4
18	9.45	+10	15.50	+ 4	27.57	+4	54.98	− 1	27.24	−1	11.40	− 7
19	9.18	+ 7	15.74	+ 7	27.57	+4	55.28	+ 3	27.39	+1	11.30	− 9
20	8.91	+ 2	15.97	+10	27.56	+3	55.58	+ 7	27.55	+2	11.20	− 9
21	8.63	− 4	16.20	+10	27.55	+1	55.88	+10	27.70	+3	11.12	− 7
22	8.34	−10	16.42	+ 8	27.54	−2	56.18	+11	27.86	+4	11.04	− 3
23	8.05	−15	16.64	+ 6	27.53	−4	56.48	+ 9	28.02	+4	10.96	+ 2
24	7.75	−17	16.86	+ 1	27.51	−6	56.78	+ 6	28.18	+3	10.89	+ 7
25	7.45	−16	17.07	− 5	27.49	−6	57.07	+ 2	28.34	+1	10.82	+10
26	7.14	−11	17.27	− 9	27.46	−5	57.37	− 3	28.50	0	10.76	+11
27	6.82	− 4	17.47	−10	27.43	−3	57.66	− 7	28.65	−2	10.71	+ 9
28	6.50	+ 4	17.66	−10	27.40	−1	57.96	− 9	28.81	−3	10.66	+ 6
29	6.17	+11	17.85	− 7	27.37	+2	58.25	−10	28.97	−3	10.62	+ 1
März 1	5.84	+15	18.04	− 3	27.33	+5	58.54	− 8	29.13	−3	10.59	− 4
2	5.50	+16	18.23	+ 1	27.29	+6	58.82	− 4	29.29	−2	10.57	− 9
3	5.16	+14	18.41	+ 7	27.25	+6	59.11	0	29.45	0	10.55	−11
4	4.81	+ 9	18.58	+ 9	27.21	+5	59.39	+ 5	29.61	+1	10.54	−10
5	4.46	+ 3	18.74	+ 9	27.16	+3	59.67	+ 7	29.77	+2	10.54	− 8
6	4.10	− 3	18.90	+ 7	27.11	+1	59.95	+ 7	29.93	+2	10.53	− 4
7	3.73	− 8	19.07	+ 4	27.06	−2	60.23	+ 7	30.09	+2	10.54	+ 1
8	3.37	−10	19.23	0	27.01	−4	60.50	+ 4	30.25	+2	10.54	+ 4
9	3.00	−10	19.37	− 5	26.95	−5	60.77	0	30.41	+1	10.56	+ 7
10	2.62	− 8	19.51	− 7	26.89	−4	61.04	− 3	30.57	0	10.59	+ 9
11	2.25	− 5	19.65	− 9	26.82	−4	61.32	− 6	30.73	−1	10.62	+ 9
12	1.87	0	19.78	−11	26.76	−2	61.59	− 8	30.89	−2	10.67	+ 8
13	1.48	+ 5	19.90	− 9	26.69	0	61.85	− 8	31.05	−3	10.72	+ 5
14	1.09	+ 8	20.01	− 6	26.62	+2	62.11	− 7	31.20	−3	10.77	0
15	0.70	+10	20.12	− 3	26.54	+3	62.37	− 5	31.36	−2	10.84	− 3
sec δ, tg δ	20.38		+20.36		6.93		+6.85		7.34		+7.27	

1916	δ Ursae minoris 4m.3				λ Ursae minoris 6m.8				76 Draconis 6m.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	17h 58m	in s 0.01	+86° 36′	in ″ 0.01	19h 2m	in s 0.01	+89° 0′	in ″ 0.01	20h 48m	in s 0.01	+82° 13′	in ″ 0.01
Febr. 7	57.80	+ 3	31.29	− 8	11.98	+ 3	43.56	−6	31.61	−2	15.50	− 7
8	58.05	+ 5	31.05	− 4	12.55	+16	43.28	−4	31.62	0	15.17	− 6
9	58.31	+ 6	30.83	0	13.14	+24	43.02	−2	31.63	+2	14.84	− 4
10	58.57	+ 6	30.60	+ 4	13.75	+26	42.74	+2	31.65	+3	14.51	0
11	58.84	+ 4	30.38	+ 8	14.39	+22	42.47	+5	31.67	+4	14.19	+ 4
12	59.11	+ 1	30.16	+ 9	15.04	+14	42.20	+7	31.69	+4	13.87	+ 7
13	59.39	− 2	29.96	+ 9	15.72	+ 4	41.94	+8	31.72	+3	13.55	+ 8
14	59.67	− 4	29.76	+ 7	16.42	− 8	41.68	+7	31.75	+2	13.23	+ 8
15	59.95	− 6	29.55	+ 5	17.13	−18	41.41	+5	31.79	0	12.91	+ 8
16	60.24	− 7	29.36	+ 1	17.87	−25	41.16	+3	31.82	−1	12.59	+ 6
17	60.54	− 7	29.16	− 3	18.62	−27	40.91	0	31.86	−2	12.28	+ 2
18	60.84	− 5	28.97	− 7	19.40	−24	40.67	−4	31.90	−3	11.97	− 2
19	61.14	− 1	28.79	− 9	20.19	−14	40.44	−7	31.95	−3	11.66	− 5
20	61.44	+ 3	28.61	− 9	21.00	0	40.21	−8	32.00	−3	11.35	− 9
21	61.75	+ 7	28.45	− 8	21.83	+16	39.98	−8	32.05	−1	11.04	−11
22	62.06	+10	28.29	− 6	22.68	+30	39.75	−7	32.10	+1	10.73	−11
23	62.38	+11	28.13	− 1	23.55	+40	39.53	−4	32.16	+2	10.43	− 8
24	62.70	+10	27.99	+ 4	24.43	+42	39.32	+1	32.22	+4	10.13	− 4
25	63.02	+ 7	27.84	+ 8	25.34	+35	39.09	+5	32.28	+4	9.82	+ 1
26	63.35	+ 3	27.70	+10	26.25	+21	38.88	+8	32.35	+4	9.53	+ 6
27	63.68	− 2	27.56	+10	27.18	+ 2	38.68	+8	32.42	+3	9.25	+ 9
28	64.01	− 7	27.43	+ 7	28.13	−17	38.48	+7	32.49	+1	8.95	+10
29	64.35	−10	27.32	+ 3	29.10	−32	38.29	+4	32.56	−1	8.66	+ 8
März 1	64.68	−10	27.21	− 2	30.07	−40	38.09	+1	32.64	−3	8.38	+ 5
2	65.02	− 9	27.10	− 7	31.06	−39	37.91	−3	32.72	−4	8.10	+ 1
3	65.36	− 6	26.99	−10	32.07	−31	37.74	−6	32.80	−4	7.83	− 4
4	65.71	− 2	26.90	−11	33.09	−17	37.56	−7	32.89	−4	7.55	− 7
5	66.05	+ 2	26.81	− 9	34.12	− 1	37.40	−7	32.97	−2	7.29	− 8
6	66.40	+ 5	26.72	− 6	35.17	+13	37.24	−5	33.06	−1	7.03	− 7
7	66.75	+ 7	26.64	− 2	36.23	+23	37.08	−3	33.16	+1	6.78	− 5
8	67.10	+ 6	26.57	+ 3	37.30	+27	36.92	+1	33.25	+3	6.52	− 2
9	67.46	+ 5	26.50	+ 7	38.38	+25	36.77	+4	33.35	+3	6.26	+ 2
10	67.81	+ 2	26.45	+ 9	39.47	+18	36.63	+7	33.45	+3	6.01	+ 5
11	68.16	− 1	26.40	+10	40.57	+ 8	36.50	+8	33.55	+3	5.76	+ 8
12	68.52	− 3	26.37	+ 8	41.68	− 4	36.38	+8	33.66	+2	5.52	+ 9
13	68.88	− 6	26.33	+ 6	42.80	−14	36.27	+6	33.77	+1	5.29	+ 9
14	69.23	− 7	26.30	+ 3	43.93	−22	36.15	+4	33.88	−1	5.06	+ 7
15	69.59	− 7	26.27	− 1	45.06	−26	36.04	+1	33.99	−2	4.84	+ 3
sec δ, tg δ	16.90		+16.87		89° 0′ 30″ 40	57.780 57.942	+57.771 +57.934		7.39		+7.32	

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in 0.01^s	+85° 48′	in 0.01″	$1^h 28^m$	in 0.01^s	+88° 51′	in 0.01″	$4^h 9^m$	in 0.01^s	+85° 20′	in 0.01″
März 15	44.01	+ 4	42.42	+ 7	44.11	+14	44.82	+ 6	45.53	+ 7	26.95	+ 2
16	43.92	0	42.12	+ 8	43.65	+ 1	44.54	+ 6	45.30	+ 4	26.82	+ 6
17	43.84	− 4	41.82	+ 6	43.20	−13	44.26	+ 6	45.08	+ 1	26.69	+ 9
18	43.77	− 8	41.53	+ 3	42.77	−26	43.98	+ 4	44.85	− 3	26.56	+10
19	43.70	−10	41.23	+ 1	42.37	−35	43.69	+ 1	44.63	− 6	26.42	+ 8
20	43.64	−10	40.93	− 3	41.98	−37	43.41	− 3	44.41	− 9	26.28	+ 6
21	43.58	− 9	40.62	− 8	41.62	−31	43.11	− 7	44.19	−10	26.12	0
22	43.53	− 5	40.31	−11	41.27	−19	42.82	−10	43.97	−10	25.96	− 5
23	43.49	0	40.01	−11	40.94	− 2	42.52	−10	43.76	− 7	25.80	− 8
24	43.45	+ 5	39.70	− 9	40.64	+15	42.22	− 9	43.55	− 3	25.64	−10
25	43.41	+ 8	39.40	− 5	40.35	+29	41.92	− 6	43.34	+ 2	25.48	−10
26	43.38	+10	39.09	− 2	40.09	+36	41.62	− 1	43.14	+ 7	25.30	− 7
27	43.36	+ 9	38.79	+ 3	39.84	+34	41.32	+ 4	42.94	+ 9	25.12	− 2
28	43.34	+ 7	38.48	+ 8	39.62	+24	41.03	+ 8	42.74	+10	24.94	+ 3
29	43.33	+ 3	38.17	+11	39.41	+ 9	40.72	+10	42.54	+ 8	24.74	+ 8
30	43.32	− 2	37.86	+11	39.22	− 8	40.41	+10	42.35	+ 5	24.54	+11
31	43.32	− 6	37.55	+ 9	39.06	−22	40.10	+ 9	42.16	+ 1	24.34	+11
April 1	43.33	− 9	37.24	+ 5	38.92	−31	39.79	+ 6	41.98	− 3	24.13	+10
2	43.34	− 9	36.93	0	38.80	−32	39.48	+ 1	41.80	− 6	23.93	+ 7
3	43.36	− 7	36.62	− 4	38.70	−26	39.17	− 4	41.62	− 7	23.71	+ 1
4	43.38	− 4	36.32	− 7	38.61	−15	38.85	− 6	41.45	− 7	23.49	− 3
5	{43.40 43.44	0 + 4	36.01 35.71	− 7 − 7	38.55	− 1	38.54	− 6	41.28	− 5	23.27	− 6
6	43.48	+ 7	35.40	− 5	38.51	+13	38.24	− 6	41.11	− 2	23.05	− 9
7	43.53	+ 8	35.09	− 2	38.49	+24	37.93	− 5	40.95	+ 1	22.82	− 9
8	43.58	+ 9	34.80	+ 1	38.49	+30	37.62	− 3	40.79	+ 4	22.59	− 8
9	43.63	+ 8	34.49	+ 3	38.52	+31	37.31	0	40.63	+ 7	22.35	− 6
10	43.69	+ 5	34.18	+ 6	38.56	+27	36.99	+ 3	40.48	+ 6	22.10	− 2
11	43.76	+ 2	33.88	+ 7	38.63	+18	36.68	+ 6	40.33	+ 7	21.86	+ 1
12	43.83	− 2	33.58	+ 7	38.71	+ 6	36.38	+ 6	40.19	+ 5	21.62	+ 6
13	43.91	− 6	33.29	+ 5	{38.82 38.95	− 9 − 22	36.06 35.76	+ 6 + 6	40.05	+ 2	21.37	+ 8
14	43.99	− 9	32.99	+ 1	39.09	−32	35.46	+ 3	39.92	− 1	21.12	+ 8
15	44.08	−10	32.70	− 3	39.26	−37	35.15	− 1	39.79	− 5	20.86	+ 9
16	44.18	−10	32.40	− 6	39.44	−34	34.85	− 4	39.66	− 8	20.60	+ 5
17	44.28	− 7	32.12	− 9	39.65	−25	34.54	− 8	39.54	−10	20.34	+ 3
18	44.38	− 3	31.83	−10	39.88	−10	34.24	−10	39.43	−10	20.07	− 3
19	44.49	+ 2	31.55	− 9	40.12	+ 8	33.95	−10	39.32	− 8	19.80	− 7
20	44.61	+ 7	31.27	− 7	40.39	+24	33.65	− 8	39.21	− 4	19.53	−10
21	44.73	+10	30.99	− 3	40.67	+34	33.34	− 4	39.10	+ 1	19.26	−11
sec δ, tg δ	13.69		+13.65		88° 51′ 30″ 40	50.189 50.312	+50.179 +50.302		12.31		+12.27	

1916	51 Hev. Cephei 5ᵐ.2				1 Hev. Draconis 4ᵐ.3				ε Ursae minoris 4ᵐ.2			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 1^m$	in s 0.01	+87° 11′	in ″ 0.01	$9^h 25^m$	in s 0.01	+81° 42′	in ″ 0.01	$16^h 54^m$	in s 0.01	+82° 10′	in ″ 0.01
März 15	60.70	+10	20.12	− 3	26.54	+3	2.37	− 5	31.36	−2	10.84	− 3
16	60.30	+11	20.22	+ 1	26.47	+4	2.62	− 2	31.52	−1	10.90	− 6
17	59.91	+ 8	20.32	+ 6	26.39	+4	2.87	+ 2	31.67	0	10.98	− 9
18	59.51	+ 4	20.42	+ 9	26.31	+3	3.11	+ 6	31.83	+2	11.06	− 9
19	59.11	− 1	20.51	+10	26.23	+2	3.35	+ 9	31.98	+3	11.14	− 7
20	58.70	− 7	20.58	+ 9	26.14	−1	3.58	+11	32.13	+4	11.23	− 4
21	58.30	−13	20.66	+ 7	26.05	−3	3.82	+10	32.28	+4	11.32	+ 1
22	57.89	−16	20.73	+ 2	25.96	−5	4.05	+ 7	32.43	+3	11.43	+ 5
23	57.48	−16	20.79	− 4	25.87	−6	4.27	+ 3	32.58	+2	11.54	+ 8
24	57.07	−12	20.85	− 8	25.78	−6	4.50	− 2	32.73	0	11.66	+10
25	56.65	− 6	20.90	−10	25.68	−4	4.72	− 7	32.88	−2	11.78	+10
26	56.24	+ 2	20.94	−10	25.59	−2	4.93	− 9	33.03	−3	11.91	+ 7
27	55.82	+ 9	20.97	− 9	25.49	+1	5.14	−10	33.17	−3	12.04	+ 3
28	55.41	+14	21.00	− 5	25.39	+4	5.34	− 9	33.31	−3	12.18	− 1
29	54.99	+16	21.03	0	25.28	+6	5.53	− 6	33.45	−2	12.32	− 6
30	54.57	+15	21.05	+ 5	25.18	+6	5.73	− 2	33.59	−1	12.48	−10
31	54.16	+11	21.06	+ 9	25.07	+6	5.93	+ 3	33.73	0	12.64	−11
April 1	53.74	+ 4	21.07	+10	24.96	+4	6.12	+ 6	33.87	+2	12.81	−10
2	53.32	− 2	21.06	+ 8	24.85	+1	6.31	+ 8	34.01	+3	12.98	− 6
3	52.90	− 7	21.06	+ 7	24.74	−1	6.50	+ 7	34.14	+3	13.15	− 1
4	52.49	−10	21.05	+ 2	24.62	−3	6.68	+ 5	34.27	+2	13.34	+ 3
5	52.07	−11	21.04	− 2	24.51	−4	6.85	+ 2	34.40	+1	13.52	+ 6
6	51.66	− 9	21.01	− 7	24.39	−5	7.02	− 2	34.53	0	13.71	+ 8
7	51.24	− 6	20.99	− 9	24.28	−4	7.18	− 5	34.66	−1	13.90	+ 9
8	50.83	− 2	20.96	− 9	24.16	−3	7.33	− 7	34.79	−2	14.10	+ 9
9	50.41	+ 3	20.92	− 8	24.04	−1	7.48	− 8	34.91	−3	14.31	+ 6
10	50.00	+ 6	20.88	− 7	23.92	+1	7.62	− 8	35.03	−3	14.52	+ 2
11	49.59	+ 9	20.82	− 4	23.79	+3	7.76	− 6	35.15	−2	14.74	− 2
12	49.19	+10	20.77	0	23.67	+4	7.90	− 4	35.27	−1	14.96	− 5
13	48.78	+ 9	20.70	+ 5	23.55	+4	8.03	0	35.39	0	15.18	− 7
14	48.38	+ 6	20.63	+ 8	23.42	+4	8.15	+ 4	35.50	+1	15.41	− 9
15	47.97	0	20.55	+10	23.29	+3	8.27	+ 8	35.61	+2	15.64	− 8
16	47.57	− 6	20.48	+10	23.16	0	8.38	+10	35.72	+3	15.88	− 6
17	47.18	−12	20.39	+ 9	23.04	−2	8.48	+10	35.83	+4	16.12	− 2
18	46.78	−15	20.30	+ 4	22.91	−4	8.58	+ 9	35.93	+3	16.36	+ 3
19	46.39	−16	20.20	0	22.78	−6	8.68	+ 5	36.03	+2	16.61	+ 7
20	46.00	−14	20.10	− 5	22.65	−6	8.77	+ 1	36.13	+1	16.87	+10
21	45.62	− 8	19.99	− 9	22.52	−5	8.86	− 4	36.23	−1	17.13	+10
sec δ, tg δ	20.39		+20.37		6.93		+6.86		7.34		+7.27	

1916	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$ s	in 0.01 s	+86° 36′ ″	in 0.01 ″	$19^h 2^m$ s	in 0.01 s	+89° 0′ ″	in 0.01 ″	$20^h 48^m$ s	in 0.01 s	+82° 13′ ″	in 0.01 ″
März 15	9.59	− 7	26.27	− 1	45.06	−26	36.04	+1	33.99	−2	4.84	+ 3
16	9.95	− 5	26.24	− 5	46.21	−25	35.93	−3	34.10	−3	4.62	− 1
17	10.31	− 3	26.23	− 9	47.36	−18	35.83	−6	34.22	−3	4.40	− 6
18	10.67	+ 1	26.23	−10	48.52	− 7	35.73	−8	34.34	−3	4.19	− 9
19	11.03	+ 5	26.23	−10	49.69	+ 8	35.65	−9	34.46	−2	3.99	−11
20	11.38	+ 8	26.24	− 7	50.86	+23	35.58	−7	34.58	0	3.78	−11
21	11.74	+10	26.26	− 3	52.04	+35	35.50	−5	34.71	+2	3.58	− 9
22	12.10	+10	26.28	+ 2	53.22	+40	35.44	−1	34.83	+3	3.39	− 5
23	12.46	+ 8	26.30	+ 7	54.41	+37	35.38	+3	34.96	+4	3.20	0
24	12.81	+ 4	26.33	+10	55.60	+25	35.33	+6	35.09	+4	3.02	+ 5
25	13.17	− 1	26.37	+11	56.80	+ 8	35.29	+8	35.22	+3	2.85	+ 9
26	13.52	− 5	26.41	+ 8	58.00	−11	35.25	+7	35.36	+1	2.67	+10
27	13.88	− 9	26.46	+ 5	59.20	−28	35.21	+5	35.49	−1	2.50	+10
28	14.23	−10	26.52	0	60.40	−39	35.17	+3	35.63	−3	2.34	+ 8
29	14.58	−10	26.58	− 5	61.61	−41	35.14	−1	35.77	−4	2.19	+ 3
30	14.93	− 7	26.66	− 9	62.82	−34	35.12	−5	35.91	−4	2.04	− 2
31	15.28	− 3	26.74	−10	64.03	−21	35.11	−7	36.05	−4	1.89	− 6
April 1	15.62	+ 1	26.82	−10	65.24	− 6	35.12	−8	36.19	−3	1.76	− 7
2	15.97	+ 5	26.91	− 7	66.44	+ 9	35.12	−6	36.34	−1	1.63	− 8
3	16.31	+ 6	27.01	− 3	67.65	+21	35.13	−3	36.48	+1	1.51	− 6
4	16.65	+ 7	27.10	0	68.86	+27	35.15	−1	36.63	+2	1.40	− 4
5	16.99	+ 6	27.21	+ 4	70.07	+27	35.16	+3	36.78	+3	1.28	0
6	17.33	+ 4	27.32	+ 8	71.27	+21	35.18	+6	36.93	+4	1.17	+ 4
7	17.66	+ 1	27.43	+ 9	72.48	+12	35.21	+8	37.08	+3	1.06	+ 7
8	17.99	− 2	27.56	+ 9	73.68	+ 1	35.24	+8	37.23	+2	0.96	+ 8
9	18.32	− 5	27.69	+ 8	74.87	−10	35.29	+7	37.38	+1	0.87	+ 8
10	18.64	− 6	27.82	+ 4	76.06	−19	35.34	+4	37.54	0	0.79	+ 6
11	18.96	− 7	27.96	0	77.25	−24	35.40	+1	37.69	−2	0.71	+ 4
12	19.28	− 6	28.11	− 4	78.43	−25	35.47	−2	37.85	−3	0.64	+ 1
13	19.60	− 3	28.26	− 8	79.61	−20	35.54	−5	38.00	−3	0.57	− 3
14	19.91	0	28.42	− 9	80.78	−10	35.62	−7	38.16	−3	0.51	− 7
15	20.22	+ 4	28.58	−10	81.95	+ 4	35.70	−8	38.32	−2	0.45	−10
16	20.52	+ 7	28.75	− 7	83.11	+19	35.79	−8	38.47	−1	0.40	−11
17	20.82	+10	28.93	− 4	84.26	+32	35.87	−5	38.63	+1	0.36	−10
18	21.12	+10	29.11	0	85.41	+39	35.97	−2	38.79	+3	0.32	− 7
19	21.41	+ 9	29.29	+ 5	86.55	+38	36.07	+2	38.95	+4	0.29	− 3
20	21.70	+ 6	29.48	+ 8	87.68	+29	36.18	+5	39.11	+4	0.27	+ 3
21	21.99	+ 1	29.67	+10	88.80	+14	36.29	+8	39.27	+4	0.26	+ 7
sec δ, tg δ	16.90		+16.87		89° 0′ 30″ 40	57.780 57.942	+57.771 +57.934		7.39		+7.32	

1916	43 Hev. Cephei 4^m.3				α Ursae minoris 2^m.0				Gr. 750 6^m.8			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$ s	in s 0.01	+85° 48′ ″	in ″ 0.01	$1^h 28^m$ s	in s 0.01	+88° 51′ ″	in ″ 0.01	$4^h 9^m$ s	in s 0.01	+85° 20′ ″	in ″ 0.01
April 21	44.73	+10	30.99	− 3	40.67	+34	33.34	− 4	39.10	+ 1	19.26	−11
22	44.85	+10	30.71	+ 2	40.98	+37	33.04	+ 1	39.00	+ 5	18.99	− 9
23	44.98	+ 8	30.43	+ 7	41.30	+31	32.75	+ 7	38.91	+ 9	18.71	− 4
24	45.12	+ 5	30.16	+10	41.65	+17	32.45	+10	38.82	+10	18.43	+ 1
25	45.26	0	29.90	+11	42.01	0	32.16	+11	38.74	+10	18.14	+ 5
26	45.41	− 5	29.64	+ 9	42.39	−16	31.87	+ 9	38.66	+ 7	17.85	+ 9
27	45.56	− 8	29.38	+ 6	42.80	−28	31.59	+ 7	38.58	+ 3	17.57	+12
28	45.71	− 9	29.12	+ 2	43.22	−32	31.31	+ 3	38.51	− 1	17.28	+10
29	45.87	− 8	28.86	− 3	43.66	−29	31.04	− 1	38.45	− 5	17.00	+ 9
30	46.04	− 5	28.61	− 6	44.11	−20	30.76	− 4	38.39	− 7	16.70	+ 4
Mai 1	46.21	− 2	28.35	− 7	44.59	− 7	30.49	− 7	38.33	− 7	16.41	0
2	46.38	+ 2	28.10	− 8	45.08	+ 8	30.22	− 7	38.28	− 6	16.12	− 5
3	46.56	+ 6	27.86	− 6	45.59	+20	29.94	− 6	38.23	− 3	15.82	− 7
4	46.74	+ 8	27.63	− 3	46.12	+28	29.67	− 4	38.19	0	15.52	− 9
5	46.93	+ 9	27.39	0	46.67	+31	29.41	− 1	38.16	+ 3	15.23	− 9
6	47.12	+ 8	27.16	+ 3	47.23	+29	29.16	+ 1	38.13	+ 6	14.94	− 6
7	47.32	+ 6	26.93	+ 5	47.81	+22	28.90	+ 4	38.10	+ 7	14.64	− 3
8	47.52	+ 3	26.72	+ 6	48.41	+11	28.64	+ 5	38.08	+ 7	14.33	0
9	47.73	− 1	26.50	+ 6	49.03	− 3	28.38	+ 6	38.06	+ 6	14.03	+ 4
10	47.94	− 5	26.28	+ 4	49.66	−17	28.13	+ 6	38.05	+ 3	13.72	+ 6
11	48.15	− 8	26.07	+ 2	50.30	−29	27.89	+ 3	38.05	0	13.43	+ 9
12	48.36	−10	25.87	− 2	50.97	−36	27.65	− 1	38.04	− 4	13.13	+ 9
13	48.58	−10	25.67	− 5	51.65	−37	27.40	− 5	38.05	− 8	12.83	+ 6
14	48.81	− 8	25.47	− 8	52.34	−30	27.17	− 8	38.06	−11	12.53	+ 4
15	49.04	− 5	25.28	−10	53.05	−17	26.94	−10	38.07	−13	12.23	− 1
16	49.27	0	25.10	−10	53.77	0	26.72	−11	38.09	−10	11.93	− 6
17	49.50	+ 5	24.92	− 9	54.51	+17	26.49	− 8	38.11	− 7	11.63	− 9
18	49.74	+ 9	24.74	− 4	55.27	+30	26.28	− 4	38.14	− 2	11.34	−12
19	49.98	+10	24.57	+ 1	56.04	+36	26.08	0	38.17	+ 3	11.03	− 9
20	50.23	+ 9	24.41	+ 6	56.82	+34	25.87	+ 5	38.21	+ 8	10.73	− 6
21	50.48	+ 6	24.24	+10	57.61	+24	25.66	+ 9	38.25	+10	10.44	− 1
22	50.73	+ 2	24.08	+11	58.42	+ 8	25.45	+12	38.30	+11	10.14	+ 4
23	50.98	− 3	23.93	+10	59.24	− 9	25.26	+12	38.36	+ 9	9.83	+ 9
24	51.24	− 7	23.79	+ 8	60.08	−23	25.07	+ 9	{38.41 38.48	+ 5 + 1	9.54 9.24	+11 +11
25	51.51	− 9	23.64	+ 5	60.93	−30	24.88	+ 5	38.54	− 3	8.95	+ 9
26	51.77	− 9	23.50	+ 1	61.79	−30	24.69	0	38.62	− 6	8.65	+ 6
27	52.03	− 7	23.37	− 1	62.66	−24	24.51	− 4	38.69	− 6	8.35	+ 2
28	52.30	− 3	23.24	− 3	63.55	−12	24.35	− 6	38.78	− 6	8.07	− 3
sec δ, tg δ	13.68		+13.64		88° 51′ 20″ 30		50.068 50.189	+50.058 +50.179	12.30		+12.26	

1916	51 Hev. Cephei 5m.2 AR.	☾ Gl.	Dekl.	☾ Gl.	1 Hev. Draconis 4m.3 AR.	☾ Gl.	Dekl.	☾ Gl.	ε Ursae minoris 4m.2 AR.	☾ Gl.	Dekl.	☾ Gl.
	7h 1m	in s 0.01	+87° 11′	in ″ 0.01	9h 25m	in s 0.01	+81° 42′	in ″ 0.01	16h 54m	in s 0.01	+82° 10′	in ″ 0.01
April 21	45.62	−8	19.99	−9	22.52	−5	8.86	−4	36.23	−1	17.13	+10
22	45.23	−1	19.87	−11	22.38	−3	8.94	−8	36.33	−3	17.40	+9
23	44.85	+7	19.75	−10	22.25	0	9.02	−10	36.42	−4	17.67	+4
24	44.48	+14	19.62	−7	22.12	+3	9.09	−10	36.51	−4	17.94	−1
25	44.11	+17	19.49	−2	21.99	+5	9.15	−7	36.60	−3	18.21	−6
26	43.74	+17	19.36	+4	21.85	+6	9.20	−4	36.69	−2	18.49	−9
27	43.37	+13	19.21	+9	21.72	+6	9.25	+1	36.77	0	18.77	−11
28	43.01	+8	19.06	+10	21.58	+5	9.30	+5	36.85	+1	19.05	−10
29	42.65	+1	18.91	+8	21.45	+2	9.34	+7	36.93	+2	19.33	−7
30	42.30	−5	18.75	+5	21.31	0	9.38	+7	37.01	+2	19.62	−3
Mai 1	41.95	−9	18.59	+2	21.18	−2	9.42	+5	37.08	+2	19.90	+1
2	41.61	−11	18.42	−2	21.04	−4	9.44	+4	37.15	+1	20.19	+5
3	41.27	−10	18.25	−7	20.91	−5	9.46	+1	37.22	0	20.48	+8
4	40.94	−8	18.07	−8	20.77	−4	9.47	−3	37.29	−1	20.78	+10
5	40.61	−4	17.89	−9	20.64	−3	9.48	−7	37.35	−2	21.07	+9
6	40.29	+1	17.70	−10	20.50	−2	9.48	−8	37.41	−2	21.36	+7
7	39.97	+5	17.52	−7	20.37	0	9.48	−7	37.47	−2	21.66	+4
8	39.65	+8	17.32	−5	20.23	+2	9.46	−6	37.52	−2	21.97	0
9	39.35	+10	17.12	−1	20.10	+3	9.44	−5	37.57	−2	22.28	−4
10	39.05	+9	16.91	+3	19.97	+4	9.43	−1	37.62	−1	22.60	−6
11	38.75	+7	16.69	+7	19.83	+4	9.41	+3	37.67	+1	22.91	−8
12	38.46	+2	16.48	+10	19.70	+3	9.38	+7	37.71	+2	23.23	−9
13	38.17	−4	16.27	+12	19.57	+1	9.34	+10	37.75	+3	23.55	−7
14	37.89	−10	16.04	+10	19.44	−1	9.29	+11	37.79	+4	23.88	−4
15	37.62	−14	15.81	+6	19.31	−4	9.24	+10	37.83	+4	24.20	+1
16	37.35	−17	15.58	+2	19.17	−5	9.19	+7	37.86	+3	24.52	+5
17	37.09	−15	15.34	−4	19.04	−6	9.12	+3	37.89	+1	24.84	+9
18	36.83	−11	15.11	−9	18.91	−5	9.05	−2	37.92	0	25.17	+11
19	36.58	−4	14.86	−10	18.79	−4	8.98	−6	37.95	−2	25.48	+10
20	36.34	+4	14.62	−11	18.66	−1	8.90	−9	37.97	−3	25.81	+7
21	36.10	+12	14.37	−8	18.53	+2	8.82	−11	37.99	−4	26.14	+2
22	35.87	+16	14.11	−3	18.40	+5	8.74	−10	38.00	−4	26.46	−4
23	35.65	+18	13.85	+1	18.28	+6	8.64	−6	38.01	−3	26.79	−8
24	35.43	+16	13.59	+6	18.15	+7	8.54	−1	38.02	−1	27.12	−11
25	35.22	+11	13.33	+9	18.03	+6	8.43	+4	38.03	+1	27.45	−11
26	35.02	+4	13.06	+10	17.91	+4	8.32	+7	38.04	+2	27.77	−9
27	34.82	−2	12.80	+9	17.79	+1	8.20	+7	38.04	+2	28.10	−5
28	34.63	−7	12.53	+6	17.67	−1	8.08	+6	38.04	+2	28.43	0
sec δ, tg δ	20.38		+20.36		6.93		+6.86		7.34		+7.27	

1916	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	+86° 36′	in ″ 0.01	$19^h 3^m$	in ^{s} 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 13′	in ″ 0.01
April 21	21.99	+ 1	29.67	+10	28.80	+14	36.29	+8	39.27	+4	0.26	+ 7
22	22.27	− 4	29.87	+ 9	29.91	− 5	36.41	+9	39.43	+2	0.26	+ 9
23	22.55	− 8	30.08	+ 6	31.02	−24	36.55	+7	39.59	0	0.25	+10
24	22.82	−11	30.28	+ 2	32.11	−37	36.68	+4	39.75	−2	0.26	+ 8
25	23.09	−11	30.50	− 4	33.20	−42	36.81	0	39.91	−3	0.27	+ 5
26	23.35	− 9	30.71	− 7	34.27	−39	36.96	−4	40.08	−4	0.28	+ 1
27	23.61	− 5	30.93	−10	35.34	−28	37.10	−7	40.24	−4	0.30	− 4
28	23.87	− 1	31.16	−10	36.39	−13	37.25	−8	40.40	−3	0.33	− 7
29	24.12	+ 3	31.39	− 9	37.43	+ 3	37.41	−7	40.56	−2	0.37	− 8
30	24.36	+ 6	31.62	− 5	38.46	+17	37.58	−4	40.72	0	0.41	− 7
Mai 1	24.60	+ 7	31.86	− 1	39.48	+25	37.76	−1	40.88	+2	0.46	− 5
2	24.84	+ 6	32.10	+ 4	40.49	+28	37.94	+2	41.04	+3	0.52	− 1
3	25.07	+ 4	32.34	+ 7	41.48	+24	38.11	+4	41.20	+3	0.58	+ 3
4	25.29	+ 2	32.59	+ 9	42.46	+16	38.30	+6	41.36	+3	0.65	+ 6
5	25.51	− 1	32.84	+ 9	43.43	+ 6	38.48	+8	41.52	+3	0.72	+ 7
6	25.73	− 4	33.10	+ 8	44.38	− 6	38.68	+7	41.68	+2	0.79	+ 8
7	25.94	− 6	33.36	+ 6	45.32	−16	38.88	+5	41.84	0	0.87	+ 7
8	26.14	− 6	33.62	+ 2	46.24	−22	39.08	+3	41.99	−1	0.96	+ 4
9	26.34	− 6	33.89	− 2	47.15	−24	39.28	0	42.15	−2	1.06	+ 1
10	26.53	− 4	34.17	− 6	48.05	−21	39.49	−3	42.31	−3	1.17	− 2
11	26.71	− 1	34.44	− 9	48.93	−13	39.71	−6	42.46	−3	1.28	− 6
12	26.89	+ 3	34.72	−10	49.79	0	39.93	−9	42.62	−2	1.40	− 9
13	27.07	+ 7	35.00	− 9	50.64	+15	40.15	−9	42.77	−1	1.52	−11
14	27.24	+ 9	35.28	− 6	51.47	+29	40.39	−7	42.93	0	1.64	−11
15	27.40	+11	35.56	− 2	52.28	+38	40.62	−4	43.08	+2	1.77	− 8
16	27.56	+10	35.86	+ 3	53.08	+41	40.86	0	43.23	+3	1.91	− 4
17	27.71	+ 7	36.15	+ 7	53.86	+35	41.09	+4	43.38	+4	2.04	+ 1
18	27.85	+ 3	36.45	+10	54.63	+21	41.33	+7	43.53	+4	2.19	+ 6
19	27.99	− 2	36.74	+10	55.37	+ 2	41.59	+8	43.68	+3	2.34	+ 8
20	28.13	− 7	37.04	+ 8	56.10	−17	41.85	+9	43.82	+1	2.50	+10
21	28.26	−10	37.33	+ 4	56.81	−33	42.11	+6	43.97	−1	2.66	+10
22	28.38	−11	37.64	− 1	57.51	−43	42.36	+3	44.11	−3	2.84	+ 7
23	28.49	−10	37.95	− 6	58.18	−43	42.63	−1	44.26	−4	3.01	+ 2
24	28.60	− 7	38.25	− 9	58.84	−35	42.90	−5	44.40	−5	3.20	− 3
25	28.70	− 3	38.57	−11	59.48	−21	43.17	−7	44.54	−4	3.38	− 6
26	28.80	+ 1	38.88	− 9	60.10	− 4	43.44	−7	44.68	−3	3.58	− 8
27	28.89	+ 5	39.19	− 6	60.70	+11	43.72	−6	44.82	−1	3.77	− 7
28	28.98	+ 6	39.51	− 2	61.28	+21	44.01	−4	44.96	+1	3.97	− 5
sec δ, tg δ	16.91		+16.88		89° 0′ 40″ 50	57.942 58.106	+57.934 +58.097		7.38		+7.32	

Scheinbare Sternörter 1916

1916	43 Hev. Cephei 4ᵐ.3				α Ursae minoris 2ᵐ.0				Gr. 750 6ᵐ.8			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in s 0.01	+85° 48′	in ″ 0.01	$1^h 29^m$	in s 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in s 0.01	+85° 19′	in ″ 0.01
Mai 28	52.30	− 3	23.24	− 3	3.55	−12	24.35	− 6	38.78	− 6	68.07	− 3
29	52.57	+ 1	23.11	− 6	4.45	+ 3	24.19	− 7	38.86	− 4	67.77	− 7
30	52.85	+ 5	23.00	− 7	5.36	+16	24.03	− 7	38.95	− 1	67.48	− 9
31	53.13	+ 7	22.89	− 6	6.28	+26	23.87	− 5	39.05	+ 2	67.19	− 9
Juni 1	53.41	+ 9	22.79	− 4	7.21	+31	23.72	− 2	39.15	+ 5	66.90	− 8
2	53.69	+ 9	22.68	− 1	8.15	+31	23.57	+ 1	39.26	+ 7	66.63	− 6
3	53.97	+ 7	22.59	+ 2	9.10	+25	23.43	+ 4	39.37	+ 7	66.35	− 3
4	54.26	+ 4	22.49	+ 4	10.07	+15	23.29	+ 5	39.48	+ 7	66.06	+ 2
5	54.55	0	22.41	+ 5	11.04	+ 2	23.16	+ 6	39.60	+ 4	65.77	+ 5
6	54.84	− 4	22.33	+ 6	12.02	−12	23.03	+ 5	39.72	+ 1	65.50	+ 7
7	55.13	− 7	22.26	+ 5	13.01	−25	22.90	+ 3	39.85	− 3	65.24	+ 8
8	55.42	−10	22.19	+ 3	14.01	−34	22.78	+ 1	39.98	− 7	64.97	+ 7
9	55.72	−10	22.12	0	15.02	−38	22.66	− 3	40.12	−10	64.70	+ 4
10	56.02	− 9	22.05	− 4	16.04	−34	22.55	− 7	40.26	−11	64.43	0
11	56.32	− 6	22.00	− 8	17.06	−23	22.45	− 9	40.41	−11	64.16	− 4
12	56.62	− 2	21.95	−11	18.09	− 8	22.35	−10	40.56	− 9	63.90	− 8
13	56.92	+ 3	21.91	−12	19.13	+ 9	22.25	−10	40.71	− 5	63.64	−11
14	57.22	+ 7	21.87	−10	20.18	+24	22.16	− 7	40.87	+ 1	63.38	−11
15	57.52	+10	21.84	− 6	21.24	+34	22.07	− 2	41.03	+ 5	63.13	− 8
16	57.83	+10	21.81	− 1	22.30	+35	21.99	+ 3	41.20	+ 9	62.89	− 3
17	58.13	+ 8	21.79	+ 5	23.37	+28	21.92	+ 7	41.37	+11	62.63	+ 1
18	58.44	+ 4	21.78	+ 9	24.44	+14	21.86	+10	41.54	+10	62.38	+ 6
19	58.75	− 1	21.78	+11	25.52	− 2	21.80	+11	41.72	+ 7	62.14	+10
20	59.06	− 5	21.77	+12	26.61	−17	21.75	+11	41.90	+ 3	61.90	+11
21	59.37	− 8	21.78	+10	27.70	−27	21.71	+ 8	42.09	− 1	61.67	+11
22	59.68	− 9	21.79	+ 7	28.79	−30	21.66	+ 4	42.28	− 4	61.44	+ 8
23	59.99	− 7	21.81	+ 2	29.89	−26	21.62	− 1	42.47	− 6	61.21	+ 4
24	60.30	− 4	21.83	− 2	31.00	−16	21.58	− 5	42.67	− 6	60.99	− 2
25	60.62	0	21.86	− 5	32.11	− 2	21.56	− 6	42.87	− 4	60.77	− 5
26	60.93	+ 4	21.88	− 6	33.22	+12	21.53	− 7	43.08	− 2	60.54	− 8
27	61.24	+ 7	21.92	− 6	34.34	+23	21.51	− 5	43.29	+ 2	60.32	− 8
28	61.55	+ 9	21.96	− 4	35.46	+30	21.50	− 2	43.50	+ 4	60.11	− 8
29	61.87	+ 9	22.00	− 1	36.59	+32	21.50	+ 2	43.72	+ 6	59.90	− 6
30	62.18	+ 8	22.06	+ 2	37.71	+28	21.50	+ 4	43.94	+ 7	59.70	− 3
Juli 1	62.50	+ 5	22.12	+ 6	38.84	+20	21.50	+ 6	44.16	+ 7	59.48	0
2	62.81	+ 2	22.18	+ 7	39.98	+ 8	21.52	+ 6	44.38	+ 6	59.27	+ 4
3	63.12	− 2	22.24	+ 6	41.11	− 6	21.54	+ 6	44.61	+ 3	59.08	+ 7
4	63.44	− 6	22.31	+ 4	42.24	−20	21.56	+ 4	44.84	− 1	58.88	+ 9
sec δ, tg δ	13.67		+13.64		88° 51′ 20″ 30	50.068 50.189	+50.058 +50.179		12.29		+12.25	

1916	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 1^m$	in ^{s} 0.01	+87° 11′	in ″ 0.01	$9^h 25^m$	in ^{s} 0.01	+81° 42′	in ″ 0.01	$16^h 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Mai 28	34.63	− 7	12.53	+ 6	17.67	− 1	8.08	+ 6	38.04	+ 2	28.43	0
29	34.45	−10	12.25	+ 2	17.55	− 3	7.96	+ 5	38.04	+ 2	28.76	+ 4
30	34.27	−11	11.97	− 2	17.43	− 4	7.83	+ 1	38.03	+ 1	29.10	+ 7
31	34.10	− 9	11.70	− 6	17.31	− 4	7.70	− 2	38.02	0	29.42	+ 9
Juni 1	33.94	− 5	11.42	− 9	17.20	− 4	7.56	− 5	38.01	− 1	29.74	+ 9
2	33.79	− 1	11.13	−10	17.08	− 2	7.41	− 7	38.00	− 2	30.08	+ 7
3	33.64	+ 4	10.83	− 8	16.97	− 1	7.25	− 8	37.98	− 2	30.41	+ 5
4	33.50	+ 8	10.54	− 6	16.86	+ 1	7.09	− 7	37.96	− 2	30.74	+ 1
5	33.37	+10	10.25	− 3	16.75	+ 3	6.93	− 6	37.93	− 2	31.05	− 2
6	33.24	+10	9.95	+ 1	16.64	+ 4	6.76	− 2	37.91	− 1	31.38	− 5
7	33.12	+ 8	9.66	+ 5	16.53	+ 4	6.59	+ 2	37.88	0	31.71	− 8
8	33.01	+ 4	9.36	+ 8	16.43	+ 3	6.42	+ 6	37.85	+ 2	32.03	− 9
9	32.91	− 2	9.06	+10	16.32	+ 2	6.24	+ 9	37.81	+ 3	32.36	− 8
10	32.81	− 8	8.75	+10	16.22	− 1	6.06	+11	37.78	+ 4	32.68	− 5
11	32.72	−14	8.46	+ 8	16.12	− 3	5.88	+11	37.74	+ 4	33.00	0
12	32.64	−17	8.15	+ 4	16.02	− 5	5.68	+ 9	37.69	+ 4	33.30	+ 4
13	32.57	−18	7.83	− 1	15.92	− 6	5.48	+ 5	37.65	+ 2	33.62	+ 7
14	32.51	−14	7.52	− 6	15.83	− 6	5.27	+ 1	37.60	0	33.93	+10
15	32.45	− 8	7.21	− 9	15.73	− 5	5.07	− 5	37.55	− 1	34.25	+10
16	32.40	0	6.89	−11	15.64	− 2	4.86	− 9	37.50	− 3	34.56	+ 8
17	32.35	+ 8	6.58	−10	15.55	+ 1	4.65	−11	37.44	− 4	34.87	+ 3
18	32.32	+15	6.26	− 6	15.46	+ 4	4.42	−10	37.38	− 4	35.17	− 2
19	32.29	+18	5.94	− 1	15.37	+ 6	4.19	− 7	37.32	− 3	35.48	− 7
20	32.27	+17	5.62	+ 5	15.29	+ 7	3.96	− 3	37.26	− 2	35.78	−10
21	32.25	+14	5.30	+ 9	15.20	+ 6	3.73	+ 1	37.19	0	36.09	−11
22	32.25	+ 8	4.99	+10	15.12	+ 5	3.49	+ 4	37.12	+ 1	36.38	−10
23	32.25	+ 1	4.66	+ 9	15.04	+ 2	3.24	+ 7	37.05	+ 2	36.68	− 6
24	32.26	− 5	4.34	+ 5	14.96	0	3.00	+ 7	36.98	+ 2	36.97	− 2
25	32.28	− 9	4.02	+ 1	14.89	− 2	2.75	+ 5	36.90	+ 2	37.26	+ 3
26	32.30	−10	3.69	− 3	14.81	− 4	2.51	+ 2	36.82	+ 1	37.54	+ 6
27	32.34	− 9	3.36	− 6	14.74	− 4	2.25	− 2	36.74	0	37.83	+ 9
28	32.38	− 6	3.04	− 9	14.67	− 4	1.98	− 5	36.66	− 1	38.12	+ 9
29	32.42	− 2	2.72	−11	14.60	− 3	1.71	− 8	36.57	− 2	38.40	+ 8
30	32.48	+ 3	2.39	− 9	14.53	− 1	1.44	− 8	36.48	− 3	38.69	+ 6
Juli 1	32.54	+ 7	2.07	− 7	14.47	+ 1	1.17	− 8	36.39	− 3	38.97	+ 2
2	32.61	+10	1.75	− 4	14.41	+ 3	0.90	− 6	36.30	− 2	39.24	− 2
3	32.69	+11	1.43	− 1	14.35	+ 4	0.62	− 4	36.20	− 1	39.51	− 5
4	32.77	+ 9	1.11	+ 5	14.29	+ 4	0.34	− 1	36.11	0	39.78	− 8
sec δ, tg δ	20.37		+20.34		6.93		+6.86		7.35		+7.28	

1916	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in s 0.01	+86° 36′	in ″ 0.01	$19^h 4^m$	in s 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in s 0.01	+82° 13′	in ″ 0.01
Mai 28	28.98	+ 6	39.51	− 2	1.28	+21	44.01	−4	44.96	+1	3.97	− 5
29	29.05	+ 6	39.83	+ 2	1.84	+26	44.29	0	45.09	+2	4.17	− 2
30	29.12	+ 5	40.15	+ 6	2.38	+25	44.58	+4	45.22	+3	4.38	+ 1
31	29.19	+ 3	40.47	+ 9	2.91	+19	44.87	+6	45.36	+3	4.59	+ 5
Juni 1	29.25	0	40.80	+10	3.41	+ 9	45.17	+8	45.49	+3	4.81	+ 7
2	29.30	− 3	41.12	+ 9	3.89	− 2	45.46	+8	45.62	+2	5.03	+ 9
3	29.34	− 5	41.45	+ 6	4.36	−13	45.76	+6	45.74	+1	5.26	+ 8
4	29.38	− 6	41.77	+ 3	4.80	−21	46.06	+4	45.87	−1	5.50	+ 6
5	29.41	− 6	42.10	− 1	5.23	−24	46.36	+2	45.99	−2	5.74	+ 3
6	29.44	− 5	42.41	− 5	5.63	−23	46.67	−2	46.11	−3	5.98	− 1
7	29.46	− 2	42.74	− 8	6.01	−16	46.97	−5	46.23	−3	6.23	− 5
8	29.47	+ 1	43.07	−10	6.37	− 4	47.28	−8	46.35	−3	6.48	− 8
9	29.48	+ 5	43.39	− 9	6.70	+10	47.59	−9	46.46	−2	6.74	−11
10	29.48	+ 9	43.72	− 7	7.02	+25	47.91	−8	46.58	0	7.00	−11
11	29.47	+11	44.05	− 4	7.32	+37	48.22	−6	46.69	+1	7.27	−10
12	29.46	+11	44.38	+ 1	7.60	+43	48.53	−2	46.80	+3	7.54	− 6
13	29.44	+ 9	44.71	+ 6	7.85	+41	48.85	+2	46.91	+4	7.81	− 2
14	29.42	+ 6	45.04	+ 9	8.08	+30	49.18	+6	47.01	+4	8.09	+ 4
15	29.38	+ 1	45.37	+10	8.30	+12	49.50	+8	47.12	+3	8.38	+ 8
16	29.34	− 5	45.70	+ 9	8.49	− 8	49.82	+8	47.22	+2	8.66	+10
17	29.30	− 9	46.02	+ 6	8.66	−27	50.14	+6	47.32	0	8.95	+10
18	29.25	−11	46.35	+ 1	8.80	−40	50.46	+4	47.41	−2	9.25	+ 9
19	29.19	−11	46.67	− 4	8.93	−44	50.79	0	47.51	−4	9.54	+ 5
20	29.13	− 9	47.00	− 8	9.04	−40	51.12	−5	47.60	−5	9.84	0
21	29.06	− 5	47.33	−10	9.12	−29	51.44	−7	47.69	−4	10.14	− 4
22	28.98	− 1	47.66	−10	9.18	−13	51.77	−8	47.78	−3	10.43	− 7
23	28.90	+ 3	47.99	− 8	9.22	+ 3	52.11	−7	47.87	−2	10.73	− 8
24	28.81	+ 5	48.32	− 4	9.24	+16	52.45	−4	47.95	0	11.04	− 7
25	28.71	+ 6	48.65	+ 1	9.24	+24	52.78	−1	48.03	+2	11.36	− 4
26	28.61	+ 5	48.97	+ 5	9.21	+25	53.12	+3	48.11	+3	11.68	0
27	28.50	+ 3	49.29	+ 8	9.17	+20	53.45	+5	48.19	+3	12.00	+ 4
28	28.38	0	49.60	+ 9	9.10	+11	53.78	+7	48.26	+3	12.33	+ 7
29	28.26	− 3	49.92	+ 9	9.01	0	54.12	+8	48.33	+2	12.66	+ 8
30	28.13	− 5	50.24	+ 7	8.89	−11	54.45	+7	48.40	+1	12.99	+ 8
Juli 1	28.00	− 7	50.56	+ 4	8.76	−20	54.79	+5	48.47	0	13.32	+ 8
2	27.86	− 7	50.88	0	8.61	−25	55.12	+2	48.54	−2	13.66	+ 5
3	27.72	− 6	51.19	− 4	8.43	−25	55.46	−2	48.60	−3	14.00	+ 1
4	27.57	− 4	51.51	− 7	8.23	−20	55.80	−4	48.66	−3	14.34	− 3
sec δ, tg δ	16.92		+16.89		89° 0′ 40″ 50	57.942 58.106	+57.934 +58.097		7.39		+7.32	

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in s 0.01	+85° 48′	in ″ 0.01	$1^h 29^m$	in s 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in s 0.01	+85° 19′	in ″ 0.01
Juli 4	3.44	− 6	22.31	+ 4	42.24	−20	21.56	+ 4	44.84	− 1	58.88	+ 9
5	3.75	− 9	22.39	+ 1	43.38	−31	21.58	+ 2	45.08	− 5	58.70	+ 8
6	4.06	−10	22.47	− 3	44.52	−37	21.61	− 2	45.32	− 9	58.52	+ 6
7	4.37	−10	22.56	− 7	45.66	−36	21.65	− 6	45.56	−11	58.33	+ 1
8	4.68	− 8	22.66	−10	46.80	−28	21.69	−10	45.80	−11	58.16	− 3
9	4.99	− 4	22.77	−12	47.94	−15	21.74	−11	46.05	−10	57.99	− 6
10	5.30	+ 1	22.88	−12	49.08	+ 2	21.79	−11	46.30	− 7	57.82	−10
11	5.61	+ 5	23.00	− 9	50.22	+18	21.85	− 9	46.55	− 2	57.65	−11
12	5.92	+ 8	23.12	− 5	51.36	+29	21.91	− 5	46.81	+ 3	57.49	−10
13	6.22	+10	23.25	+ 1	52.50	+34	21.98	0	47.07	+ 7	57.33	− 7
14	6.53	+ 8	23.37	+ 6	53.64	+30	22.05	+ 5	47.33	+10	57.19	− 2
15	6.84	+ 5	23.51	+ 9	54.77	+19	22.13	+ 9	47.59	+10	57.05	+ 4
16	7.14	+ 1	23.65	+11	55.91	+ 4	22.21	+11	47.86	+ 8	56.91	+ 8
17	7.44	− 4	23.79	+10	57.04	−12	22.30	+11	48.13	+ 5	56.77	+11
18	7.74	− 7	23.94	+ 7	58.17	−24	22.39	+ 8	48.40	0	56.64	+11
19	8.04	− 9	24.10	+ 4	59.30	−30	22.50	+ 5	48.67	− 3	56.51	+ 9
20	8.34	− 8	24.25	− 1	60.43	−28	22.61	+ 1	48.94	− 5	56.40	+ 6
21	8.64	− 5	24.42	− 4	61.56	−20	22.72	− 3	49.22	− 6	56.28	+ 1
22	8.93	− 2	24.58	− 6	62.68	− 7	22.84	− 5	49.50	− 5	56.17	− 4
23	9.23	+ 2	24.76	− 6	63.80	+ 7	22.96	− 6	49.78	− 2	56.06	− 7
24	9.52	+ 6	24.94	− 5	64.92	+20	23.09	− 5	50.06	0	55.96	− 8
25	9.81	+ 8	25.13	− 2	66.03	+29	23.22	− 3	50.35	+ 3	55.86	− 8
26	10.10	+ 9	25.31	+ 1	67.14	+33	23.35	0	50.64	+ 6	55.76	− 6
27	10.39	+ 9	25.51	+ 4	68.24	+31	23.49	+ 2	50.93	+ 8	55.67	− 4
28	10.67	+ 7	25.71	+ 6	69.34	+24	23.63	+ 4	51.22	+ 8	55.58	0
29	10.96	+ 4	25.91	+ 7	70.44	+13	23.78	+ 6	51.51	+ 7	55.50	+ 4
30	11.24	0	26.13	+ 8	71.53	0	23.94	+ 7	51.81	+ 5	55.42	+ 6
31	11.52	− 4	26.34	+ 6	72.62	−14	24.10	+ 6	52.10	+ 1	55.34	+ 8
Aug. 1	11.80	− 7	26.56	+ 3	73.70	−26	24.27	+ 3	52.40	− 3	55.27	+ 8
2	12.07	−10	26.78	− 1	74.77	−34	24.44	0	52.70	− 7	55.21	+ 6
3	12.34	−10	27.01	− 5	75.84	−36	24.63	− 4	53.00	−10	55.15	+ 4
4	12.61	− 9	27.24	− 9	76.91	−31	24.82	− 8	53.30	−11	55.09	− 1
5	12.88	− 6	27.48	−12	77.97	−20	25.00	−10	53.61	−10	55.03	− 4
6	13.15	− 1	27.71	−13	79.02	− 5	25.19	−12	53.91	− 8	54.99	− 8
7	13.41	+ 3	27.95	−10	80.06	+11	25.38	−10	54.22	− 4	54.96	−11
8	13.67	+ 7	28.19	− 6	81.10	+24	25.58	− 7	54.52	0	54.92	−11
9	13.93	+ 9	28.45	− 2	82.13	+32	25.79	− 3	54.83	+ 5	54.89	− 8
10	14.18	+ 9	28.70	+ 4	83.15	+32	26.01	+ 2	55.14	+ 8	54.86	− 3
sec δ, tg δ	13.68		+13.64		88° 51′ 20″ 30		50.068 50.189	+50.058 +50.179	12.29		+12.25	

1916	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 1^m$	in ^{s} 0.01	+87° 10′	in ″ 0.01	$9^h 25^m$	in ^{s} 0.01	+81° 41′	in ″ 0.01	$16^h 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Juli 4	32.77	+ 9	61.11	+ 5	14.29	+ 4	60.34	− 1	36.11	0	39.78	− 8
5	32.87	+ 6	60.78	+ 9	14.23	+ 4	60.06	+ 4	36.01	+ 1	40.05	− 9
6	32.97	+ 1	60.46	+10	14.18	+ 2	59.78	+ 8	35.90	+ 2	40.31	− 8
7	33.08 33.19	− 6 −12	60.13 59.81	+11 + 9	14.13	0	59.49	+11	35.80	+ 3	40.56	− 6
8	33.32	−16	59.49	+ 7	14.08	− 2	59.20	+11	35.69	+ 4	40.82	− 2
9	33.45	−19	59.17	+ 2	14.03	− 5	58.91	+10	35.58	+ 4	41.08	+ 3
10	33.58	−17	58.84	− 3	13.98	− 6	58.61	+ 7	35.47	+ 3	41.32	+ 7
11	33.72	−13	58.51	− 7	13.94	− 7	58.30	+ 3	35.36	+ 2	41.57	+10
12	33.88	− 5	58.19	−10	13.90	− 6	58.00	− 1	35.25	0	41.81	+11
13	34.04	+ 3	57.87	−11	13.86	− 4	57.71	− 6	35.13	− 2	42.05	+ 9
14	34.20	+11	57.54	− 8	13.82	− 1	57.40	− 9	35.01	− 3	42.28	+ 6
15	34.37	+16	57.22	− 5	13.78	+ 2	57.08	− 9	34.89	− 3	42.51	+ 1
16	34.55	+17	56.90	0	13.75	+ 5	56.78	− 8	34.76	− 3	42.73	− 5
17	34.74	+15	56.58	+ 5	13.72	+ 6	56.46	− 5	34.64	− 2	42.96	− 9
18	34.94	+11	56.28	+ 9	13.69	+ 7	56.14	0	34.51	− 1	43.17	−12
19	35.14	+ 4	55.96	+ 9	13.67	+ 6	55.80	+ 3	34.38	+ 1	43.39	−11
20	35.34	− 2	55.65	+ 7	13.65	+ 4	55.47	+ 6	34.25	+ 2	43.60	− 8
21	35.56	− 7	55.33	+ 5	13.63	+ 1	55.14	+ 6	34.11	+ 2	43.81	− 4
22	35.78	− 9	55.02	0	13.61	− 2	54.81	+ 6	33.98	+ 2	44.02	+ 1
23	36.01	− 9	54.73	− 5	13.59	− 3	54.48	+ 3	33.84	+ 1	44.21	+ 5
24	36.24	− 7	54.42	− 7	13.57	− 4	54.15	0	33.70	0	44.41	+ 8
25	36.48	− 3	54.11	− 9	13.56	− 4	53.83	− 4	33.56	− 1	44.59	+ 9
26	36.73	+ 2	53.81	−10	13.55	− 3	53.50	− 7	33.42	− 2	44.78	+ 8
27	36.98	+ 6	53.51	− 8	13.54	− 1	53.17	− 9	33.28	− 3	44.96	+ 7
28	37.24	+ 9	53.21	− 6	13.53	0	52.85	− 8	33.13	− 3	45.14	+ 3
29	37.51	+11	52.92	− 2	13.53	+ 2	52.52	− 8	32.98	− 3	45.31	− 1
30	37.79	+11	52.62	+ 2	13.53	+ 3	52.17	− 5	32.83	− 2	45.48	− 4
31	38.07	+ 8	52.34	+ 6	13.53	+ 4	51.82	− 2	32.68	− 1	45.65	− 7
Aug. 1	38.36	+ 4	52.04	+ 9	13.53	+ 4	51.48	+ 2	32.53	+ 1	45.81	− 8
2	38.65	− 2	51.75	+10	13.54	+ 3	51.14	+ 6	32.38	+ 2	45.96	− 8
3	38.95	− 9	51.46	+10	13.55	+ 1	50.79	+ 9	32.23	+ 3	46.11	− 6
4	39.26	−14	51.18	+ 7	13.56	− 1	50.45	+11	32.07	+ 4	46.26	− 4
5	39.57	−18	50.89	+ 3	13.57	− 4	50.11	+11	31.91	+ 4	46.40	0
6	39.89	−18	50.61	− 1	13.58	− 6	49.78	+ 8	31.76	+ 3	46.53	+ 5
7	40.21	−15	50.33	− 5	13.60	− 7	49.43	+ 5	31.60	+ 2	46.66	+ 9
8	40.54	− 9	50.06	− 9	13.62	− 7	49.08	0	31.43	+ 1	46.79	+11
9	40.87	− 1	49.79	−10	13.64	− 5	48.73	− 5	31.27	− 1	46.91	+10
10	41.21	+ 7	49.52	− 8	13.67	− 2	48.38	− 8	31.11	− 2	47.03	+ 8
sec δ, tg δ	20.34		+20.32		6.93		+6.85		7.35		+7.28	

1916	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	+86° 36′	in ″ 0.01	$19^h 3^m$	in ^{s} 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 13′	in ″ 0.01
Juli 4	$27^s.57$	− 4	$51''.51$	− 7	$68^s.23$	−20	$55''.80$	− 4	$48^s.66$	− 3	$14''.34$	− 3
5	27.41	0	51.82	− 9	68.01	−10	56.14	− 7	48.71	− 3	14.67	− 7
6	27.25	+ 4	52.13	−10	67.77	+ 4	56.46	− 8	48.77	− 2	15.02	−10
7	27.08	+ 8	52.44	− 8	67.51	+20	56.80	− 8	48.82	− 1	15.35	−12
8	26.90	+11	52.74	− 5	67.23	+34	57.14	− 7	48.87	+ 1	15.70	−11
9	26.72	+12	53.04	0	66.92	+43	57.47	− 3	48.92	+ 2	16.05	− 8
10	26.53	+11	53.34	+ 4	66.59	+45	57.81	0	48.96	+ 4	16.40	− 5
11	26.34	+ 8	53.64	+ 8	66.25	+38	58.14	+ 4	49.00	+ 4	16.75	0
12	26.14	+ 4	53.94	+10	65.88	+23	58.47	+ 7	49.04	+ 4	17.11	+ 5
13	25.94	− 2	54.23	+10	65.49	+ 4	58.80	+ 9	49.08	+ 3	17.46	+ 8
14	25.73	− 6	54.52	+ 7	65.08	−16	59.13	+ 8	49.11	+ 1	17.81	+10
15	25.51	−10	54.81	+ 3	64.65	−32	59.45	+ 4	49.14	− 1	18.17	+ 9
16	25.29	−11	55.09	− 3	64.19	−41	59.78	+ 1	49.17	− 3	18.52	+ 6
17	25.07	− 9	55.37	− 7	63.72	−41	60.10	− 4	49.20	− 4	18.88	+ 2
18	24.84	− 6	55.65	−10	63.23	−33	60.43	− 6	49.22	− 5	19.24	− 3
19	24.60	− 2	55.93	−10	62.72	−19	60.76	− 7	49.24	− 4	19.61	− 7
20	24.36	+ 1	56.20	− 9	62.18	− 3	61.09	− 6	49.26	− 2	19.97	− 7
21	24.11	+ 4	56.48	− 5	61.63	+11	61.41	− 4	49.28	− 1	20.34	− 6
22	23.86	+ 6	56.75	0	61.05	+20	61.73	− 1	49.29	+ 1	20.70	− 4
23	23.60	+ 5	57.02	+ 4	60.46	+24	62.04	+ 2	49.30	+ 2	21.07	− 1
24	23.34	+ 4	57.28	+ 7	59.84	+21	62.35	+ 5	49.31	+ 3	21.43	+ 3
25	23.07	+ 1	57.53	+ 9	59.21	+13	62.66	+ 7	49.31	+ 3	21.80	+ 7
26	22.79	− 2	57.79	+ 9	58.56	+ 3	62.98	+ 8	49.31	+ 3	22.16	+ 8
27	22.52	− 5	58.05	+ 8	57.89	− 8	63.29	+ 7	49.31	+ 2	22.53	+ 9
28	22.24	− 7	58.31	+ 5	57.19	−18	63.60	+ 6	49.31	0	22.90	+ 9
29	21.95	− 7	58.56	+ 2	56.48	−25	63.91	+ 3	49.31	− 1	23.26	+ 6
30	21.66	− 7	58.81	− 2	55.75	−27	64.22	0	49.30	− 2	23.63	+ 3
31	21.36	− 5	59.05	− 6	55.00	−24	64.52	− 4	49.29	− 3	24.00	− 1
Aug. 1	21.06	− 2	59.29	− 9	54.23	−16	64.82	− 7	49.27	− 3	24.37	− 5
2	20.75	+ 2	59.53	−10	53.45	− 3	65.12	− 8	49.26	− 3	24.74	− 8
3	20.44	+ 6	59.76	− 9	52.65	+12	65.42	− 9	49.24	− 2	25.11	−10
4	20.13	+ 9	59.99	− 6	51.82	+27	65.72	− 7	49.22	0	25.48	−11
5	19.81	+11	60.21	− 2	50.98	+39	66.01	− 5	49.19	+ 2	25.85	− 9
6	19.49	+12	60.43	+ 3	50.12	+45	66.29	− 1	49.17	+ 3	26.22	− 6
7	19.16	+10	60.64	+ 7	49.25	+42	66.58	+ 4	49.14	+ 4	26.59	− 2
8	18.83	+ 6	60.86	+10	48.35	+31	66.87	+ 7	49.11	+ 4	26.96	+ 3
9	18.49	+ 1	61.06	+10	47.44	+14	67.14	+ 8	49.07	+ 4	27.33	+ 7
10	18.15	− 4	61.27	+ 9	46.52	− 6	67.43	+ 7	49.04	+ 2	27.69	+ 9
sec δ, tg δ	16.94		+16.91		89° 0′ 60″ 70		58.270 +58.261 58.435 +58.426		7.39		+7.32	

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 30^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Aug. 10	14.18	+ 9	28.70	+ 4	23.15	+32	26.01	+ 2	55.14	+ 8	54.86	— 3
11	14.44	+ 6	28.96	+ 7	24.17	+23	26.22	+ 7	55.45	+ 9	54.84	+ 2
12	14.69	+ 2	29.22	+10	25.18	+ 9	26.44	+ 9	55.76	+ 8	54.82	+ 7
13	14.94	— 2	29.49	+10	26.18	— 7	26.66	+11	56.07	+ 5	54.82	+10
14	15.18	— 6	29.76	+ 9	27.17	—21	26.90	+ 9	56.38	+ 1	54.81	+11
15	15.42	— 8	30.04	+ 5	28.15	—29	27.13	+ 5	56.69	— 2	54.81	+ 9
16	15.66	— 9	30.31	+ 1	29.13	—30	27.36	+ 1	57.01	— 5	54.81	+ 6
17	15.90	— 7	30.60	— 3	30.10	—24	27.59	— 2	57.32	— 6	54.80	+ 2
18	16.13	— 3	30.89	— 6	31.06	—12	27.84	— 4	57.63	— 5	54.81	— 2
19	16.36	+ 1	31.18	— 7	32.01	+ 2	28.10	— 6	57.95	— 3	54.82	— 6
20	16.59	+ 4	31.48	— 6	32.96	+16	28.35	— 6	58.26	— 1	54.85	— 8
21	16.81	+ 7	31.77	— 3	33.89	+27	28.61	— 4	58.58	+ 3	54.88	— 8
22	17.03	+ 9	32.07	0	34.81	+32	28.87	— 2	58.89	+ 6	54.91	— 7
23	17.25	+ 9	32.37	+ 2	35.73	+32	29.14	+ 1	59.21	+ 7	54.94	— 5
24	17.46	+ 8	32.68	+ 5	36.63	+27	29.41	+ 4	59.52	+ 8	54.98	— 1
25	17.67	+ 5	32.99	+ 7	37.52	+18	29.69	+ 6	59.84	+ 8	55.02	+ 2
26	17.88	+ 1	33.31	+ 7	38.40	+ 5	29.96	+ 7	60.16	+ 6	55.07	+ 5
27	18.08	— 2	33.61	+ 7	39.28	— 8	30.23	+ 6	60.47	+ 3	55.12	+ 7
28	18.28	— 6	33.93	+ 5	40.14	—21	30.51	+ 5	60.79	— 1	55.18	+ 9
29	18.48	— 9	34.26	+ 2	40.99	—31	30.80	+ 2	61.10	— 5	55.24	+ 8
30	18.67	—10	34.59	— 2	41.83	—35	31.09	— 2	61.42	— 8	55.31	+ 5
31	18.86	— 9	34.92	— 6	42.66	—33	31.38	— 6	61.73	—10	55.39	+ 1
Sept. 1	19.05	— 7	35.25	—10	43.48	—24	31.67	— 9	62.05	—11	55.46	— 3
2	19.24	— 3	35.59	—11	44.29	—11	31.97	—11	62.36	— 9	55.54	— 7
3	19.42	+ 2	35.93	—11	45.08	+ 5	32.28	—11	62.68	— 6	55.63	—10
4	19.59	+ 6	36.27	— 8	45.86	+20	32.59	— 9	62.99	— 2	55.72	—11
5	19.76	+ 9	36.61	— 5	46.63	+30	32.90	— 5	63.30	+ 3	55.82	— 9
6	19.93	+ 9	36.95	0	47.39	+32	33.20	0	63.61	+ 7	55.92	— 6
7	20.09	+ 7	37.30	+ 5	48.14	+27	33.52	+ 4	63.93	+ 9	56.02	— 1
8	20.25	+ 4	37.64	+ 9	48.88	+15	33.84	+ 7	64.24	+ 8	56.13	+ 4
9	20.41	0	37.99	+10	49.60	— 1	34.16	+ 9	64.55	+ 6	56.24	+ 8
10	20.56	— 5	38.35	+ 9	50.31	—17	34.49	+ 9	64.85	+ 2	56.37	+10
11	20.71	— 8	38.70	+ 6	51.00	—28	34.82	+ 7	65.16	— 2	56.49	+11
12	20.86	— 9	39.06	+ 2	51.68	—32	35.15	+ 3	65.47	— 5	56.62	+ 8
13	21.00	— 8	39.41	— 2	52.35	—28	35.48	— 1	65.77	— 6	56.75	+ 4
14	21.14	— 5	39.78	— 5	53.01	—18	35.81	— 4	66.08	— 6	56.88	— 1
15	21.27	— 1	40.14	— 6	53.65	— 4	36.15	— 6	66.38	— 5	57.02	— 5
16	21.40	+ 3	40.51	— 6	54.28	+11	36.48	— 6	66.68	— 2	57.17	— 7
sec δ, tg δ	13.68		+13.65		88° 51′ 30″	50.189	+50.179		12.29		+12.25	
					40	50.312	+50.302					

1916	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 1^m$	in ^{s} 0.01	$+87° 10'$	in $''$ 0.01	$9^h 25^m$	in ^{s} 0.01	$+81° 41'$	in $''$ 0.01	$16^h 54^m$	in ^{s} 0.01	$+82° 10'$	in $''$ 0.01
Aug. 10	$41^s.21$	+ 7	$49''.52$	− 8	$13^s.67$	− 2	$48''.38$	− 8	$31^s.11$	− 2	$47''.03$	+ 8
11	41.56	+13	49.25	− 4	13.69	+ 1	48.03	− 9	30.94	− 3	47.14	+ 3
12	41.91	+16	48.99	0	13.72 / 13.75	+ 4 / + 6	47.67 / 47.33	− 8 / − 5	30.78	− 3	47.25	− 2
13	42.27	+15	48.73	+ 4	13.78	+ 6	46.98	− 1	30.61	− 2	47.35	− 6
14	42.63	+12	48.46	+ 8	13.82	+ 6	46.63	+ 3	30.44	− 1	47.45	−10
15	43.00	+ 6	48.21	+ 9	13.85	+ 4	46.28	+ 6	30.27	0	47.54	−11
16	43.37	0	47.95	+ 8	13.89	+ 2	45.93	+ 7	30.11	+ 1	47.63	−10
17	43.75	− 6	47.70	+ 6	13.93	− 1	45.57	+ 7	29.94	+ 2	47.72	− 6
18	44.13	− 9	47.45	+ 3	13.98	− 3	45.21	+ 4	29.76	+ 2	47.81	− 2
19	44.52	− 9	47.20	− 3	14.02	− 4	44.86	+ 1	29.59	+ 2	47.88	+ 2
20	44.91	− 7	46.95	− 6	14.07	− 4	44.50	− 2	29.42	+ 1	47.95	+ 7
21	45.31	− 4	46.72	− 8	14.12	− 4	44.15	− 5	29.24	− 1	48.02	+ 9
22	45.71	+ 1	46.49	− 9	14.17	− 2	43.80	− 8	29.07	− 2	48.07	+ 9
23	46.12	+ 5	46.26	− 9	14.23	0	43.45	− 8	28.89	− 3	48.12	+ 8
24	46.53	+ 9	46.03	− 7	14.29	+ 2	43.11	− 9	28.72	− 3	48.17	+ 5
25	46.95	+11	45.81	− 4	14.35	+ 3	42.77	− 7	28.54	− 3	48.22	+ 1
26	47.37	+11	45.59	0	14.41	+ 4	42.42	− 3	28.36	− 2	48.26	− 2
27	47.80	+10	45.37	+ 4	14.47	+ 5	42.07	+ 1	28.18	− 1	48.30	− 5
28	48.23	+ 6	45.15	+ 6	14.54	+ 4	41.71	+ 4	28.00	0	48.33	− 8
29	48.67	+ 1	44.94	+ 9	14.60	+ 2	41.36	+ 7	27.82	+ 1	48.36	− 9
30	49.10	− 6	44.74	+10	14.67	0	41.02	+ 9	27.64	+ 2	48.37	− 8
31	49.55	−12	44.54	+ 8	14.74	− 2	40.68	+10	27.46	+ 3	48.39	− 5
Sept. 1	49.99	−16	44.34	+ 5	14.82	− 4	40.33	+10	27.28	+ 4	48.39	− 1
2	50.45	−18	44.14	+ 1	14.89	− 6	39.99	+ 7	27.10	+ 4	48.40	+ 4
3	50.90	−16	43.95	− 3	14.97	− 6	39.64	+ 2	26.92	+ 3	48.39	+ 8
4	51.36	−11	43.76	− 8	15.05	− 6	39.30	− 3	26.74	+ 1	48.39	+10
5	51.82	− 4	43.58	−10	15.13	− 4	38.97	− 6	26.56	0	48.38	+10
6	52.28	+ 4	43.39	− 9	15.22	− 1	38.64	− 9	26.38	− 2	48.37	+ 9
7	52.75	+10	43.21	− 6	15.30	+ 2	38.30	− 9	26.20	− 3	48.36	+ 5
8	53.22	+14	43.04	− 2	15.39	+ 5	37.96	− 7	26.02	− 3	48.33	0
9	53.70	+15	42.87	+ 3	15.48	+ 6	37.63	− 3	25.84	− 3	48.30	− 5
10	54.18	+12	42.71	+ 7	15.57	+ 6	37.30	+ 1	25.66	− 2	48.26	−10
11	54.66	+ 7	42.55	+ 9	15.67	+ 5	36.97	+ 4	25.47	0	48.22	−11
12	55.14	+ 1	42.39	+ 9	15.76	+ 2	36.64	+ 7	25.29	+ 1	48.18	−11
13	55.63	− 5	42.24	+ 7	15.86	0	36.31	+ 8	25.11	+ 2	48.12	− 7
14	56.12	− 9	42.09	+ 4	15.96	− 2	35.99	+ 6	24.93	+ 2	48.06	− 3
15	56.62	−10	41.94	0	16.06	− 4	35.67	+ 3	24.75	+ 2	48.00	+ 2
16	57.11	− 9	41.80	− 5	16.17	− 4	35.36	− 1	24.57	+ 1	47.94	+ 6
sec δ, tg δ	20.32		+20.30		6.92		+6.85		7.35		+7.28	

1916	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	+86° 37′	in ″ 0.01	$19^h 3^m$	in ^{s} 0.01	+89° 1′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 13′	in ″ 0.01
Aug. 10	18.15	− 4	1.27	+ 9	46.52	− 6	7.43	+ 7	49.04	+ 2	27.69	+ 9
11	17.81	− 8	1.48	+ 5	45.57	−24	7.71	+ 5	49.00	0	28.06	+ 9
12	17.46	−10	1.68	0	44.61	−36	7.98	+ 2	48.95	− 2	28.42	+ 6
13	17.11	− 9	1.87	− 5	43.64	−40	8.25	− 2	48.91	− 4	28.79	+ 3
14	16.76	− 7	2.06	− 9	42.65	−35	8.52	− 5	48.86	− 4	29.15	− 1
15	16.40	− 3	2.25	−10	41.64	−23	8.78	− 7	48.81	− 4	29.51	− 5
16	16.04	+ 1	2.43	− 9	40.61	− 8	9.05	− 7	48.76	− 3	29.87	− 8
17	15.68	+ 4	2.60	− 7	39.57	+ 7	9.31	− 6	48.71	− 1	30.22	− 8
18	15.31	+ 6	2.77	− 3	38.51	+18	9.57	− 3	48.65	+ 1	30.58	− 6
19	14.94	+ 6	2.94	+ 2	37.44	+23	9.83	+ 1	48.59	+ 2	30.93	− 2
20	14.56	+ 4	3.11	+ 5	36.35	+22	10.08	+ 5	48.53	+ 3	31.29	+ 1
21	14.18	+ 2	3.27	+ 9	35.25	+16	10.33	+ 7	48.46	+ 3	31.63	+ 5
22	13.80	− 1	3.43	+10	34.14	+ 6	10.56	+ 8	48.40	+ 3	31.98	+ 8
23	13.42	− 4	3.58	+ 8	33.01	− 6	10.79	+ 8	48.33	+ 2	32.33	+ 9
24	13.03	− 6	3.74	+ 7	31.87	−16	11.02	+ 7	48.25	+ 1	32.68	+ 9
25	12.64	− 7	3.88	+ 4	30.71	−24	11.26	+ 4	48.18	− 1	33.02	+ 7
26	12.25	− 8	4.02	0	29.54	−28	11.50	+ 1	48.10	− 2	33.37	+ 4
27	11.86	− 6	4.16	− 4	28.35	−27	11.72	− 3	48.02	− 3	33.70	0
28	11.46	− 4	4.29	− 7	27.15	−21	11.95	− 5	47.94	− 3	34.04	− 4
29	11.06	0	4.42	− 9	25.94	−10	12.16	− 7	47.86	− 3	34.39	− 7
30	10.65	+ 4	4.54	−10	24.71	+ 4	12.38	− 8	47.78	− 2	34.73	−10
31	10.25	+ 7	4.66	− 8	23.47	+19	12.59	− 7	47.69	− 1	35.06	−11
Sept. 1	9.84	+10	4.77	− 4	22.23	+33	12.79	− 5	47.60	+ 1	35.39	−10
2	9.43	+11	4.88	0	20.97	+42	12.99	− 2	47.51	+ 3	35.72	− 7
3	9.02	+10	4.98	+ 5	19.69	+42	13.19	+ 2	47.41	+ 4	36.05	− 3
4	8.61	+ 7	5.08	+ 9	18.41	+35	13.38	+ 5	47.31	+ 4	36.38	+ 2
5	8.20	+ 3	5.17	+10	17.12	+21	13.58	+ 8	47.21	+ 4	36.70	+ 6
6	7.78	− 2	5.25	+ 9	15.81	+ 2	13.77	+ 8	47.11	+ 2	37.02	+ 9
7	7.36	− 6	5.33	+ 7	14.49	−16	13.96	+ 6	47.01	0	37.34	+ 9
8	6.94	− 9	5.42	+ 2	13.17	−30	14.14	+ 3	46.91	− 1	37.65	+ 8
9	6.52	− 9	5.49	− 3	11.83	−37	14.32	− 1	46.80	− 3	37.97	+ 4
10	6.09	− 8	5.56	− 7	10.48	−35	14.49	− 4	46.69	− 4	38.28	− 1
11	5.67	− 4	5.63	−10	9.13	−26	14.66	− 7	46.58	− 4	38.59	− 5
12	5.24	0	5.69	−11	7.76	−12	14.82	− 8	46.47	− 3	38.89	− 7
13	4.82	+ 3	5.75	− 8	6.39	+ 4	14.99	− 7	46.35	− 2	39.19	− 7
14	4.39	+ 6	5.80	− 4	5.01	+16	15.14	− 4	46.23	0	39.48	− 6
15	3.96	+ 6	5.84	0	3.62	+23	15.29	− 1	46.11	+ 2	39.78	− 3
16	3.53	+ 5	5.88	+ 4	2.22	+24	15.43	+ 3	45.99	+ 3	40.07	+ 1
sec δ, tg δ	16.95		+16.92		89° 1′ 10″ 20	58.435 58.601	+58.426 +58.592		7.39		+7.32	

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 30^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 10^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Sept. 16	21.40	+ 3	40.51	− 6	54.28	+11	36.48	− 6	6.68	− 2	57.17	− 7
17	21.52	+ 6	40.88	− 4	54.90	+23	36.82	− 5	6.98	+ 2	57.31	− 8
18	21.64	+ 8	41.25	− 1	55.50	+31	37.18	− 2	7.28	+ 5	57.47	− 7
19	21.76	+ 9	41.62	+ 2	56.09	+33	37.52	0	7.58	+ 7	57.63	− 5
20	21.87	+ 8	41.99	+ 4	56.67	+30	37.87	+ 3	7.87	+ 8	57.79	− 2
21	21.98	+ 6	42.37	+ 6	57.23	+22	38.23	+ 6	8.17	+ 8	57.95	+ 1
22	22.09	+ 3	42.73	+ 8	57.77	+10	38.59	+ 7	8.46	+ 7	58.11	+ 5
23	22.19	− 1	43.10	+ 7	58.30	− 3	38.94	+ 7	8.75	+ 4	58.29	+ 7
24	22.28	− 5	43.48	+ 6	58.82	−16	39.31	+ 6	9.04	0	58.47	+ 8
25	22.37	− 8	43.86	+ 3	59.32	−27	39.66	+ 4	9.33	− 3	58.64	+ 8
26	22.46	− 9	44.23	− 1	59.81	−33	40.01	0	9.62	− 7	58.82	+ 6
27	22.54	−10	44.61	− 5	60.28	−34	40.38	− 4	9.90	− 9	59.01	+ 3
28	22.62	− 8	45.00	− 9	60.74	−28	40.74	− 8	10.18	−10	59.21	− 1
29	22.70	− 4	45.38	−11	61.18	−16	41.12	−10	10.46	− 9	59.41	− 6
30	22.77	0	45.76	−11	61.60	0	41.49	−10	10.74	− 7	59.61	− 9
Okt. 1	22.84	+ 5	46.14	− 9	62.01	+15	41.86	− 8	11.02	− 3	59.81	−10
2	22.90	+ 8	46.51	− 5	62.40	+27	42.23	− 6	11.29	+ 2	60.02	−10
3	22.95	+ 9	46.90	0	62.78	+33	42.61	− 2	11.56	+ 6	60.24	− 7
4	23.00	+ 9	47.29	+ 4	63.14	+31	42.98	+ 3	11.83	+ 8	60.46	− 2
5	23.05	+ 6	47.67	+ 8	63.49	+20	43.36	+ 7	12.10	+ 9	60.68	+ 3
6	23.09	+ 1	48.04	+10	63.83	+ 5	43.72	+ 9	12.36	+ 7	60.91	+ 7
7	23.13	− 3	48.42	+10	64.14	−11	44.10	+ 9	12.62	+ 4	61.14	+10
8	23.17	− 7	48.82	+ 7	64.44	−24	44.48	+ 7	12.88	0	61.37	+11
9	23.20	− 9	49.20	+ 3	64.72	−31	44.85	+ 4	13.14	− 4	61.60	+ 9
10	23.23	− 9	49.59	− 1	64.99	−31	45.23	0	13.39	− 6	61.85	+ 5
11	23.25	− 7	49.97	− 5	65.24	−23	45.62	− 4	13.64	− 7	62.09	+ 1
12	23.26	− 3	50.35	− 7	65.47	−10	46.00	− 6	13.89	− 6	62.34	− 3
13	23.27	+ 1	50.73	− 7	65.69	+ 5	46.38	− 6	14.14	− 3	62.59	− 7
14	23.28	+ 5	51.11	− 5	65.89	+18	46.76	− 5	14.38	0	62.84	− 9
15	23.28	+ 8	51.49	− 2	66.08	+28	47.14	− 3	14.62	+ 3	63.09	− 8
16	23.28	+ 9	51.87	+ 1	66.24	+33	47.52	− 1	14.86	+ 6	63.34	− 7
17	23.28	+ 9	52.26	+ 3	66.39	+31	47.90	+ 3	15.09	+ 8	63.61	− 4
18	23.27	+ 7	52.63	+ 6	66.52	+24	48.29	+ 5	15.32	+ 8	63.88	− 1
19	23.25	+ 4	53.01	+ 8	66.64	+14	48.67	+ 7	15.55	+ 7	64.14	+ 3
20	23.23	0	53.38	+ 8	66.73	+ 2	49.05	+ 7	15.78	+ 5	64.41	+ 5
21	23.21	− 4	53.76	+ 7	66.81	−12	49.43	+ 6	16.00	+ 2	64.68	+ 7
22	23.18	− 7	54.13	+ 4	66.88	−24	49.81	+ 4	16.22	− 2	64.96	+ 9
23	23.14	− 9	54.51	0	66.92	−32	50.20	+ 1	16.43	− 6	65.24	+ 7
sec δ, tg δ	13.70		+13.66		88° 51′ 40″	50.312	+50.302		12.29		+12.25	
					50	50.435	+50.425					

1916	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 1^m$	in ^{s} 0.01	+87° 10′	in ″ 0.01	$9^h 25^m$	in ^{s} 0.01	+81° 41′	in ″ 0.01	$16^h 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Sept. 16	57.11	− 9	41.80	− 5	16.17	− 4	35.36	− 1	24.57	+ 1	47.94	+ 6
17	57.61	− 6	41.66	− 8	16.27	− 4	35.04	− 5	24.39	0	47.87	+ 9
18	58.11	− 1	41.53	− 9	16.38	− 3	34.72	− 8	24.21	− 1	47.79	+ 9
19	58.62	+ 4	41.40	− 9	16.49	− 1	34.41	− 9	24.03	− 2	47.72	+ 8
20	59.12	+ 8	41.28	− 8	16.60	+ 1	34.10	− 9	23.85	− 3	47.63	+ 6
21	59.63	+11	41.17	− 4	16.71	+ 3	33.79	− 7	23.67	− 3	47.54	+ 3
22	60.14	+12	41.06	− 1	16.83	+ 4	33.48	− 5	23.49	− 3	47.45	− 1
23	60.65	+11	40.95	+ 3	16.95	+ 4	33.17	− 1	23.31	− 2	47.34	− 5
24	61.17	+ 8	40.85	+ 7	17.06	+ 4	32.87	+ 3	23.14	− 1	47.24	− 8
25	61.68	+ 3	40.75	+ 9	17.18	+ 3	32.58	+ 6	22.96	+ 1	47.14	− 9
26	62.20	− 3	40.65	+10	17.30	+ 1	32.28	+ 9	22.78	+ 2	47.02	− 9
27	62.72	− 9	40.55	+ 9	17.43	− 1	31.98	+10	22.61	+ 3	46.90	− 7
28	63.24	−14	40.47	+ 6	17.55	− 3	31.69	+10	22.44	+ 4	46.77	− 4
29	63.76	−16	40.39	+ 2	17.68	− 5	31.40	+ 7	22.26	+ 4	46.64	+ 2
30	64.28	−16	40.31	− 2	17.81	− 6	31.11	+ 4	22.09	+ 3	46.50	+ 6
Okt. 1	64.81	−12	40.23	− 7	17.94	− 6	30.83	0	21.92	+ 2	46.37	+10
2	65.33	− 6	40.16	− 9	18.07	− 4	30.55	− 4	21.75	0	46.22	+11
3	65.86	+ 1	40.10	− 8	18.20	− 2	30.27	− 8	21.58	− 2	46.07	+11
4	66.39	+ 8	40.05	− 8	18.34	+ 1	30.00	− 9	21.41	− 3	45.91	+ 8
5	66.92	+13	40.00	− 3	18.48	+ 4	29.74	− 8	21.24	− 3	45.75	+ 2
6	67.44	+15	39.95	0	18.62	+ 6	29.48	− 5	21.07	− 3	45.58	− 3
7	67.97	+13	39.90	+ 4	18.76	+ 6	29.21	− 1	20.91	− 2	45.41	− 8
8	68.50	+ 9	39.85	+ 9	18.90	+ 5	28.95	+ 4	20.74	− 1	45.24	−11
9	69.03	+ 3	39.82	+10	19.04	+ 3	28.70	+ 7	20.58	+ 1	45.06	−11
10	69.56	− 3	39.79	+ 9	19.18	+ 1	28.45	+ 8	20.41	+ 2	44.88	− 8
11	70.09	− 8	39.77	+ 6	19.33	− 2	28.20	+ 7	20.25	+ 2	44.69	− 5
12	70.62	−10	39.75	+ 1	19.47	− 3	27.96	+ 4	20.10	+ 2	44.51	0
13	71.16	−10	39.74	− 3	19.62	− 4	27.72	+ 1	19.94	+ 2	44.31	+ 4
14	71.69	− 7	39.72	− 7	19.77	− 4	27.48	− 3	19.78	+ 1	44.11	+ 8
15	72.22	− 3	39.72	− 9	19.92	− 3	27.25	− 6	19.63	− 1	43.90	+ 9
16	72.74	+ 2	39.72	−10	20.07	− 2	27.02	− 8	19.48	− 2	43.69	+ 8
17	73.27	+ 6	39.72	− 8	20.23	0	26.79	− 9	19.32	− 3	43.47	+ 7
18	73.80	+ 9	39.73	− 6	20.38	+ 2	26.57	− 7	19.17	− 3	43.25	+ 4
19	74.33	+11	39.74	− 2	20.54	+ 3	26.35	− 5	19.03	− 3	43.02	0
20	74.85	+11	39.77	+ 2	20.70	+ 4	26.13	− 2	18.88	− 2	42.80	− 4
21	75.38	+ 9	39.80	+ 6	20.85	+ 4	25.92	+ 1	18.73	− 1	42.57	− 7
22	75.90	+ 5	39.83	+ 9	21.01	+ 3	25.72	+ 5	18.59	0	42.34	− 8
23	76.42	− 1	39.86	+10	21.17	+ 2	25.52	+ 8	18.45	+ 2	42.10	− 8
sec δ, tg δ	20.31		+20.29		6.92		+6.85		7.35		+7.28	

1916	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	17ʰ 58ᵐ s	in s 0.01	+86° 37′ ″	in ″ 0.01	19ʰ 2ᵐ s	in s 0.01	+89° 1′ ″	in ″ 0.01	20ʰ 48ᵐ s	in s 0.01	+82° 13′ ″	in ″ 0.01
Sept. 16	63.53	+ 5	5.88	+ 4	62.22	+24	15.43	+ 3	45.99	+ 3	40.07	+ 1
17	63.10	+ 3	5.92	+ 7	60.81	+19	15.57	+ 6	45.87	+ 4	40.35	+ 4
18	62.67	0	5.96	+ 9	59.40	+10	15.71	+ 8	45.74	+ 3	40.62	+ 7
19	62.24	− 3	5.98	+10	57.98	− 2	15.84	+ 8	45.62	+ 2	40.90	+ 9
20	61.80	− 6	6.01	+ 8	56.55	−13	15.97	+ 8	45.49	+ 1	41.18	+ 9
21	61.37	− 7	6.02	+ 5	55.11	−22	16.09	+ 6	45.36	0	41.45	+ 8
22	60.94	− 8	6.04	+ 1	53.67	−27	16.21	+ 3	45.23	− 2	41.71	+ 5
23	60.50	− 7	6.04	− 3	52.22	−28	16.32	0	45.09	− 3	41.97	+ 1
24	60.07	− 5	6.04	− 6	50.77	−24	16.43	− 4	44.96	− 3	42.22	− 2
25	59.64	− 2	6.03	−10	49.31	−15	16.53	− 7	44.82	− 3	42.48	− 6
26	59.20	+ 2	6.02	− 9	47.85	− 2	16.62	− 8	44.68	− 3	42.74	− 9
27	58.77	+ 6	6.00	− 9	46.38	+13	16.71	− 8	44.54	− 1	42.99	−11
28	58.34	+ 9	5.98	− 6	44.90	+27	16.80	− 7	44.40	0	43.25	−11
29	57.90	+10	5.96	− 1	43.42	+37	16.88	− 4	44.26	+ 2	43.49	− 9
30	57.47	+10	5.93	+ 3	41.94	+41	16.96	− 1	44.11	+ 3	43.73	− 5
Okt. 1	57.04	+ 8	5.89	+ 7	40.45	+37	17.03	+ 3	43.97	+ 4	43.97	0
2	56.60	+ 4	5.86	+10	38.96	+25	17.11	+ 6	43.82	+ 4	44.21	+ 5
3	56.17	− 1	5.81	+11	37.47	+ 8	17.18	+ 8	43.67	+ 3	44.43	+ 8
4	55.74	− 5	5.76	+ 8	35.98	−10	17.24	+ 8	43.52	+ 1	44.66	+ 9
5	55.31	− 8	5.71	+ 4	34.49	−26	17.29	+ 5	43.37	− 1	44.87	+ 8
6	54.89	− 9	5.65	− 2	32.99	−36	17.33	+ 1	43.22	− 3	45.08	+ 6
7	54.46	− 8	5.58	− 6	31.49	−37	17.38	− 3	43.07	− 4	45.29	+ 2
8	54.04	− 6	5.52	−10	29.99	−29	17.42	− 6	42.91	− 4	45.49	− 3
9	53.61	− 2	5.44	−11	28.48	−16	17.46	− 8	42.76	− 4	45.69	− 7
10	53.19	+ 2	5.36	− 9	26.98	− 1	17.48	− 9	42.60	− 2	45.88	− 8
11	52.77	+ 5	5.27	− 6	25.48	+13	17.51	− 6	42.44	− 1	46.07	− 7
12	52.35	+ 7	5.19	− 1	23.98	+23	17.53	− 3	42.28	+ 1	46.25	− 6
13	51.93	+ 6	5.10	+ 3	22.47	+26	17.55	+ 1	42.12	+ 2	46.43	− 2
14	51.51	+ 4	5.00	+ 5	20.97	+23	17.56	+ 5	41.96	+ 3	46.60	+ 2
15	51.10	+ 2	4.90	+ 9	19.47	+15	17.57	+ 8	41.80	+ 3	46.77	+ 6
16	50.69	− 2	4.80	+ 9	17.97	+ 4	17.57	+ 8	41.63	+ 3	46.93	+ 9
17	50.27	− 5	4.69	+ 9	16.47	− 8	17.57	+ 8	41.47	+ 2	47.09	+ 9
18	49.86	− 7	4.57	+ 6	14.98	−18	17.55	+ 7	41.31	0	47.24	+ 8
19	49.46	− 8	4.44	+ 2	13.48	−25	17.54	+ 4	41.14	− 1	47.39	+ 7
20	49.06	− 7	4.32	− 2	11.99	−28	17.52	+ 1	40.97	− 2	47.53	+ 4
21	48.66	− 6	4.19	− 5	10.50	−26	17.49	− 3	40.81	− 3	47.67	0
22	48.26	− 3	4.06	− 8	9.02	−18	17.45	− 7	40.64	− 3	47.80	− 4
23	47.86	+ 1	3.91	− 9	7.54	− 6	17.41	− 9	40.47	− 3	47.93	− 8
sec δ, tg δ	16.95		+16.92		89° 1′ 10″	58.435	+58.426		7.40		+7.33	
					20	58.601	+58.592					

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in 0.01^s	+85° 48′	in 0.01″	$1^h 30^m$	in 0.01^s	+88° 51′	in 0.01″	$4^h 10^m$	in 0.01^s	+85° 20′	in 0.01″
Okt. 23	23.14^s	− 9	54.51″	0	66.92^s	−32	50.20″	+ 1	16.43^s	− 6	5.24″	+ 7
24	23.11	−10	54.87	− 4	66.95	−34	50.58	− 2	16.64	− 9	5.53	+ 4
25	23.07	− 9	55.25	− 8	66.96	−31	50.95	− 6	16.85	−10	5.82	+ 1
26	23.02	− 6	55.62	−10	66.95	−21	51.33	− 8	17.05	−10	6.11	− 3
27	22.97	− 2	55.99	−11	66.93	− 7	51.72	−10	17.25	− 8	6.39	− 8
28	22.91	+ 3	56.36	−10	66.89	+ 9	52.09	− 9	17.45	− 4	6.69	−10
29	22.85	+ 7	56.73	− 6	66.83	+23	52.47	− 7	17.64	0	6.99	−11
30	22.79	+ 9	57.09	− 2	66.76	+32	52.84	− 3	17.83	+ 5	7.29	− 9
31	22.72	+ 9	57.45	+ 3	66.66	+33	53.22	+ 2	18.02	+ 8	7.59	− 4
Nov. 1	22.64	+ 7	57.81	+ 8	66.55	+26	53.59	+ 7	18.20	+ 9	7.89	0
2	22.56	+ 3	58.17	+10	66.42	+13	53.97	+ 9	18.38	+ 8	8.20	+ 6
3	22.48	− 1	58.52	+10	66.28	− 4	54.33	+10	18.56	+ 6	8.51	+ 9
4	22.39	− 5	58.86	+ 8	66.11	−19	54.71	+ 8	18.73	+ 2	8.82	+11
5	22.30	− 8	59.21	+ 5	65.93	−29	55.07	+ 5	18.89	− 2	9.13	+10
6	22.20	− 9	59.56	0	65.73	−32	55.44	+ 1	19.05	− 6	9.43	+ 7
7	22.10	− 8	59.90	− 3	65.51	−27	55.81	− 3	19.21	− 7	9.75	+ 2
8	22.00	− 5	60.25	− 7	65.28	−16	56.17	− 6	19.37	− 7	10.06	− 1
9	21.89	0	60.59	− 7	65.03	− 1	56.53	− 7	19.52	− 5	10.38	− 6
10	21.78	+ 4	60.93	− 7	64.76	+13	56.88	− 6	19.66	− 2	10.71	− 8
11	21.66	+ 7	61.26	− 4	64.47	+24	57.24	− 5	19.80	+ 2	11.03	− 9
12	21.53	+ 9	61.59	0	64.17	+31	57.59	− 2	19.94	+ 5	11.35	− 7
13	21.40	+ 9	61.91	+ 2	63.85	+32	57.94	+ 1	20.07	+ 7	11.68	− 5
14	21.27	+ 8	62.24	+ 5	63.50	+28	58.29	+ 4	20.20	+ 8	12.01	− 2
15	21.14	+ 5	62.56	+ 7	63.15	+18	58.64	+ 6	20.32	+ 7	12.34	+ 2
16	21.00	+ 2	62.89	+ 7	62.77	+ 6	58.98	+ 6	20.44	+ 6	12.67	+ 5
17	20.86	− 2	63.20	+ 6	62.38	− 7	59.32	+ 6	20.56	+ 3	12.99	+ 7
18	20.71	− 6	63.51	+ 4	61.97	−20	59.66	+ 4	20.67	− 1	13.32	+ 8
19	20.56	− 8	63.82	+ 1	61.55	−29	60.00	+ 2	20.78	− 5	13.66	+ 8
20	20.40	−10	64.11	− 3	61.11	−34	60.33	− 2	20.88	− 8	13.99	+ 6
21	20.24	− 9	64.40	− 6	60.64	−33	60.66	− 6	20.97	−10	14.33	+ 2
22	20.08	− 7	64.69	− 9	60.16	−26	60.98	− 9	21.06	−11	14.67	− 2
23	19.91	− 3	64.98	−11	59.67	−13	61.30	−10	21.15	− 9	15.01	− 6
24	19.74	+ 1	65.27	−10	59.16	+ 3	61.61	−10	21.23	− 6	15.34	− 9
25	19.56	+ 5	65.55	− 8	58.64	+18	61.94	− 8	21.31	− 2	15.67	−11
26	19.38	+ 8	65.83	− 4	58.09	+29	62.26	− 5	21.38	+ 3	16.01	− 9
27	19.20	+ 9	66.11	+ 2	57.54	+34	62.57	− 1	21.45	+ 7	16.35	− 6
28	19.01	+ 8	66.38	+ 7	56.96	+30	62.88	+ 4	21.51	+ 9	16.68	− 1
29	18.82	+ 5	66.65	+10	56.37	+19	63.19	+ 9	21.57	+ 9	17.01	+ 4
sec δ, tg δ	13.71		+13.67		88° 51′ 50″ 60	50.435 50.558	+50.425 +50.548		12.30		+12.26	

1916	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 2^m$	in ^{s} 0.01	+87° 10′	in ″ 0.01	$9^h\ 25^m$	in ^{s} 0.01	+81° 41′	in ″ 0.01	$16^h\ 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Okt. 23	$16\overset{s}{.}42$	− 1	$39\overset{″}{.}86$	+10	$21\overset{s}{.}17$	+ 2	25.52	+ 8	$18\overset{s}{.}45$	+ 2	$42\overset{″}{.}10$	− 8
24	16.94	− 7	39.90	+ 9	21.33	0	25.32	+10	18.31	+ 3	41.86	− 7
25	17.46	−12	39.95	+ 7	21.49	− 3	25.13	+11	18.17	+ 4	41.61	− 3
26	17.98	−15	40.00	+ 4	21.66	− 4	24.94	+ 8	18.04	+ 4	41.35	0
27	18.49	−16	40.05	− 1	21.82	− 6	24.76	+ 5	17.90	+ 3	41.10	+ 4
28	19.01	−14	40.10	− 6	21.99	− 6	24.58	+ 1	17.77	+ 2	40.83	+ 8
29	19.52	− 8	40.17	− 8	22.15	− 5	24.41	− 4	17.64	0	40.57	+10
30	20.03	− 1	40.24	−10	22.32	− 3	24.24	− 8	17.51	− 1	40.31	+11
31	20.54	+ 6	40.31	− 8	22.49	0	24.08	− 9	17.38	− 2	40.04	+ 9
Nov. 1	21.05	+12	40.40	− 5	22.66	+ 3	23.93	− 9	17.26	− 3	39.77	+ 4
2	21.55	+15	40.49	− 1	22.83	+ 5	23.77	− 6	17.14	− 3	39.49	− 3
3	22.05	+15	40.58	+ 4	23.00	+ 6	23.62	− 2	17.02	− 2	39.20	− 7
4	22.55	+12	40.67	+ 7	23.17	+ 6	23.48	+ 2	16.90	− 1	38.92	−11
5	23.04	+ 6	40.77	+ 9	23.34	+ 4	23.34	+ 5	16.79	0	38.64	−12
6	23.53	− 1	40.87	+ 9	23.51	+ 2	23.20	+ 8	16.68	+ 2	38.36	−11
7	24.02	− 6	40.97	+ 6	23.68	− 1	23.07	+ 8	16.57	+ 3	38.06	− 7
8	24.51	− 9	41.08	+ 3	23.85	− 3	22.95	+ 5	16.46	+ 3	37.78	− 1
9	24.99	−11	41.20	− 2	24.03	− 4	22.83	+ 2	16.35	+ 2	37.48	+ 4
10	25.47	− 9	41.33	− 6	24.20	− 4	22.71	− 1	16.25	+ 1	37.17	+ 7
11	25.94	− 5	41.46	− 9	24.37	− 4	22.60	− 5	16.15	0	36.86	+ 9
12	26.41	− 1	41.59	− 9	24.55	− 2	22.50	− 7	16.05	− 1	36.56	+ 8
13	26.88	+ 4	41.72	− 8	24.72	− 1	22.40	− 8	15.96	− 2	36.25	+ 7
14	27.34	+ 8	41.86	− 6	24.90	+ 1	22.31	− 8	15.86	− 3	35.94	+ 4
15	27.80	+10	42.01	− 3	25.07	+ 3	22.23	− 7	15.77	− 3	35.61	+ 1
16	28.26	+11	42.16	+ 1	25.25	+ 4	22.14	− 3	15.69	− 2	35.30	− 2
17	28.71	+ 9	42.31	+ 5	25.42	+ 4	22.06	0	15.60	− 1	34.97	− 5
18	29.15	+ 6	42.47	+ 7	25.60	+ 4	22.00	+ 4	15.52	0	34.65	− 8
19	29.59	+ 1	42.64	+ 9	25.77	+ 2	21.94	+ 8	15.44	+ 1	34.32	− 9
20	30.03	− 5	42.81	+ 9	25.95	0	21.89	+ 9	15.37	+ 2	33.98	− 9
21	30.47	−11	42.99	+ 8	26.12	− 2	21.83	+10	15.29	+ 3	33.65	− 7
22	30.90	−15	43.17	+ 5	26.30	− 4	21.78	+10	15.22	+ 4	33.32	− 3
23	31.32	−16	43.35	+ 1	26.47	− 6	21.74	+ 7	15.15	+ 4	32.98	+ 2
24	31.74	−16	43.54	− 3	26.65	− 6	21.70	+ 2	15.09	+ 3	32.66	+ 7
25	32.15	−11	43.73	− 7	26.82	− 5	21.67	− 2	15.03	+ 1	32.32	+10
26	32.56	− 4	43.93	−10	27.00	− 4	21.65	− 6	14.97	0	31.98	+11
27	32.96	+ 4	44.13	−10	27.17	− 1	21.63	− 9	14.91	− 2	31.64	+10
28	33.35	+11	44.33	− 7	27.35	+ 2	21.62	− 9	14.85	− 3	31.30	+ 6
29	33.74	+15	44.53	− 3	27.52	+ 5	21.61	− 8	14.80	− 3	30.95	0
sec δ, tg δ	20.31		+20.29		6.92		+6.85		7.35		+7.28	

1916	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$	in ^{s} 0.01	+86° 36′	in $''$ 0.01	$19^h 1^m$	in ^{s} 0.01	+89° 1′	in $''$ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 13′	in $''$ 0.01
Okt. 23	47.86	+ 1	63.91	− 9	67.54	− 6	17.41	− 9	40.47	− 3	47.93	− 8
24	47.47	+ 5	63.76	− 9	66.07	+ 8	17.37	− 9	40.30	− 2	48.06	−10
25	47.08	+ 8	63.61	− 7	64.60	+22	17.33	− 7	40.13	0	48.17	−10
26	46.69	+10	63.46	− 3	63.13	+34	17.28	− 5	39.96	+ 1	48.29	− 9
27	46.30	+11	63.30	+ 2	61.67	+40	17.22	− 2	39.79	+ 3	48.40	− 6
28	45.92	+ 9	63.13	+ 6	60.21	+39	17.15	+ 3	39.62	+ 4	48.51	− 2
29	45.55	+ 6	62.96	+ 9	58.76	+29	17.07	+ 7	39.45	+ 4	48.60	+ 3
30	45.17	+ 1	62.78	+10	57.31	+14	17.00	+ 8	39.28	+ 3	48.69	+ 6
31	44.80	− 4	62.61	+ 9	55.88	− 5	16.93	+ 8	39.11	+ 2	48.78	+ 9
Nov. 1	44.44	− 8	62.43	+ 5	54.45	−23	16.85	+ 6	38.93	0	48.86	+10
2	44.07	−10	62.24	0	53.03	−35	16.75	+ 3	38.76	− 2	48.93	+ 7
3	43.71	−10	62.05	− 5	51.62	−39	16.65	− 1	38.59	− 4	49.01	+ 3
4	43.36	− 7	61.85	− 9	50.21	−35	16.56	− 4	38.42	− 4	49.08	− 2
5	43.01	− 4	61.65	−10	48.81	−23	16.45	− 7	38.24	− 4	49.13	− 6
6	42.66	+ 1	61.44	−10	47.43	− 7	16.35	− 9	38.07	− 3	49.18	− 8
7	42.32	+ 4	61.23	− 7	46.05	+ 8	16.24	− 7	37.90	− 1	49.23	− 8
8	41.98	+ 7	61.01	− 3	44.68	+20	16.11	− 4	37.73	+ 1	49.26	− 7
9	41.64	+ 7	60.79	+ 2	43.32	+26	15.99	− 1	37.56	+ 2	49.29	− 3
10	41.31	+ 5	60.57	+ 6	41.97	+26	15.86	+ 3	37.38	+ 3	49.32	+ 1
11	40.99	+ 3	60.34	+ 9	40.64	+19	15.73	+ 7	37.21	+ 3	49.35	+ 5
12	40.67	0	60.11	+ 9	39.31	+ 9	15.59	+ 8	37.04	+ 3	49.36	+ 8
13	40.35	− 3	59.87	+ 9	37.99	− 3	15.44	+ 9	36.87	+ 2	49.38	+10
14	40.04	− 6	59.63	+ 7	36.69	−15	15.30	+ 7	36.70	+ 1	49.38	+11
15	39.73	− 7	59.39	+ 4	35.40	−23	15.14	+ 5	36.53	− 1	49.38	+ 8
16	39.43	− 7	59.15	− 1	34.12	−27	14.99	+ 2	36.36	− 2	49.38	+ 5
17	39.13	− 6	58.89	− 4	32.85	−26	14.83	− 2	36.19	− 3	49.36	+ 1
18	38.84	− 4	58.63	− 8	31.60	−20	14.66	− 4	36.02	− 3	49.33	− 3
19	38.56	0	58.37	− 9	30.36	−10	14.49	− 7	35.85	− 3	49.31	− 7
20	38.28	+ 4	58.12	− 9	29.14	+ 3	14.31	− 8	35.68	− 2	49.28	−10
21	38.00	+ 7	57.86	− 8	27.93	+18	14.12	− 8	35.52	− 1	49.24	−12
22	37.73	+10	57.60	− 4	26.73	+31	13.93	− 6	35.35	+ 1	49.21	−10
23	37.47	+11	57.34	− 1	25.55	+40	13.75	− 3	35.18	+ 2	49.16	− 8
24	37.21	+10	57.07	+ 5	24.38	+42	13.56	+ 1	35.02	+ 4	49.11	− 4
25	36.96	+ 7	56.79	+ 9	23.23	+35	13.36	+ 5	34.85	+ 4	49.04	+ 1
26	36.71	+ 3	56.50	+10	22.10	+21	13.16	+ 8	34.69	+ 4	48.97	+ 5
27	36.47	− 2	56.22	+10	20.98	+ 2	12.94	+ 9	34.53	+ 3	48.89	+ 9
28	36.24	− 6	55.93	+ 8	19.88	−17	12.73	+ 8	34.37	+ 1	48.81	+10
29	36.01	− 9	55.63	+ 3	18.80	−32	12.52	+ 6	34.21	− 1	48.74	+10
sec δ, tg δ	16.95		+16.92		89° 1′ 10″ 20	58.435 58.601	+58.426 +58.592		7.40		+7.33	

1916	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in $0^s.01$	+85° 49′	in 0″.01	$1^h 30^m$	in $0^s.01$	+88° 52′	in 0″.01	$4^h 10^m$	in $0^s.01$	+85° 20′	in 0″.01
Nov. 29	$18^s.82$	+ 5	6″.65	+10	$56^s.37$	+19	3″.19	+ 9	$21^s.57$	+ 9	17″.01	+ 4
30	18.62	+ 1	6.91	+11	55.76	+ 4	3.48	+10	21.63	+ 7	17.35	+ 9
Dez. 1	18.42	− 4	7.17	+10	55.14	−12	3.78	+10	21.68	+ 4	17.68	+11
2	18.22	− 7	7.42	+ 8	54.50	−25	4.07	+ 9	21.72	0	18.02	+11
3	18.02	− 9	7.67	+ 3	53.85	−31	4.35	+ 4	21.76	− 4	18.36	+ 9
4	17.81	− 8	7.91	− 2	53.18	−29	4.63	− 1	21.79	− 6	18.70	+ 4
5	17.60	− 6	8.15	− 5	52.50	−20	4.92	− 4	21.82	− 7	19.04	0
6	17.38	− 2	8.39	− 6	51.80	− 7	5.19	− 7	21.84	− 5	19.38	− 4
7	17.16	+ 2	8.61	− 6	51.09	+ 8	5.46	− 7	21.86	− 3	19.71	− 7
8	16.94	+ 6	8.83	− 4	50.36	+21	5.71	− 5	21.87	+ 1	20.04	− 9
9	16.71	+ 8	9.04	− 1	49.62	+30	5.97	− 3	21.88	+ 4	20.37	− 8
10	16.48	+ 9	9.24	+ 2	48.87	+33	6.22	0	21.88	+ 7	20.70	− 6
11	16.25	+ 8	9.45	+ 4	48.10	+30	6.47	+ 3	21.88	+ 8	21.02	− 3
12	16.02	+ 6	9.65	+ 6	47.32	+22	6.70	+ 5	21.87	+ 8	21.34	0
13	15.78	+ 3	9.84	+ 7	46.52	+11	6.94	+ 6	21.86	+ 6	21.67	+ 3
14	15.54	− 1	10.03	+ 7	45.71	− 2	7.17	+ 6	21.84	+ 4	22.00	+ 7
15	15.30	− 4	10.22	+ 5	44.89	−15	7.41	+ 5	21.82	0	22.32	+ 8
16	15.06	− 7	10.40	+ 3	44.06	−26	7.64	+ 3	21.80	− 3	22.65	+ 8
17	14.81	− 9	10.57	− 1	43.21	−33	7.86	0	21.77	− 7	22.97	+ 6
18	14.56	−10	10.73	− 5	42.35	−35	8.07	− 4	21.73	−10	23.29	+ 3
19	14.31	− 8	10.89	− 8	41.48	−30	8.28	− 8	21.69	−11	23.61	− 1
20	14.05	− 5	11.04	−11	40.60	−20	8.47	−11	21.64	−10	23.93	− 5
21	13.79	− 1	11.19	−12	39.71	− 5	8.67	−12	21.59	− 8	24.24	− 9
22	13.54	+ 3	11.33	−11	38.81	+11	8.86	−10	21.53	− 4	24.55	−11
23	13.27	+ 7	11.47	− 6	37.89	+24	9.05	− 7	21.47	+ 1	24.85	−11
24	13.01	+ 9	11.60	− 1	36.97	+32	9.23	− 2	21.40	+ 5	25.16	− 7
25	12.75	+ 9	11.73	+ 3	36.03	+32	9.42	+ 3	21.33	+ 8	25.46	− 3
26	12.48	+ 7	11.85	+ 7	35.09	+24	9.59	+ 7	21.25	+ 9	25.76	+ 2
27	12.21	+ 3	11.97	+10	34.14	+10	9.74	+10	21.17	+ 8	26.06	+ 7
28	11.94	− 2	12.07	+11	33.18	− 6	9.89	+10	21.08	+ 6	26.35	+10
29	11.67	− 6	12.17	+ 9	32.21	−20	10.04	+ 8	20.99	+ 2	26.64	+12
30	11.40	− 8	12.26	+ 6	31.23	−29	10.17	+ 6	20.90	− 2	26.93	+10
31	11.12	− 8	12.35	+ 1	30.24	−30	10.30	+ 2	20.80	− 5	27.21	+ 6
32	10.85	− 7	12.43	− 4	29.25	−24	10.43	− 2	20.69	− 6	27.49	+ 2
sec δ, tg δ	13.72		+13.68		88° 52′ 0″ / 10		50.558 / 50.683	+50.548 / +50.673	12.31		+12.27	

N

1916	51 Hev. Cephei 5m.2				1 Hev. Draconis 4m.3				ε Ursae minoris 4m.2			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	7h 2m	in 0.01s	+87° 10′	in 0.01″	9h 25m	in 0.01s	+81° 41′	in 0.01″	16h 54m	in 0.01s	+82° 10′	in 0.01″
Nov. 29	33.74	+15	44.53	− 3	27.52	+ 5	21.61	− 8	14.80	− 3	30.95	0
30	34.12	+16	44.74	+ 2	27.69	+ 6	21.61	− 4	14.76	− 3	30.60	− 6
Dez. 1	34.50	+14	44.96	+ 6	27.87	+ 6	21.61	0	14.71	− 2	30.25	−10
2	34.87	+ 9	45.19	+ 9	28.04	+ 5	21.62	+ 4	14.67	− 1	29.91	−11
3	35.23	+ 3	45.41	+10	28.21	+ 3	21.64	+ 6	14.63	+ 1	29.57	−11
4	35.59	− 4	45.64	+ 8	28.38	0	21.66	+ 7	14.60 14.57	+ 2 + 2	29.21 28.86	− 8 − 4
5	35.94	− 8	45.87	+ 5	28.55	− 2	21.68	+ 7	14.54	+ 2	28.50	+ 1
6	36.29	−10	46.10	+ 1	28.72	− 4	21.71	+ 3	14.51	+ 1	28.15	+ 4
7	36.63	−10	46.34	− 4	28.89	− 4	21.75	0	14.49	0	27.80	+ 7
8	36.96	− 7	46.58	− 7	29.06	− 4	21.79	− 4	14.47	− 1	27.44	+ 9
9	37.28	− 2	46.83	− 9	29.22	− 3	21.84	− 6	14.45	− 2	27.09	+ 9
10	37.60	+ 3	47.09	− 9	29.38	− 1	21.89	− 8	14.44	− 3	26.73	+ 7
11	37.91	+ 7	47.34	− 8	29.55	+ 1	21.95	− 9	14.43	− 3	26.37	+ 3
12	38.22	+10	47.60	− 5	29.71	+ 2	22.01	− 8	14.42	− 3	26.01	0
13	38.51	+11	47.86	− 2	29.87	+ 3	22.09	− 6	14.42	− 2	25.65	− 3
14	38.80	+10	48.12	+ 2	30.03	+ 4	22.17	− 2	14.42	− 1	25.30	− 6
15	39.08	+ 7	48.39	+ 6	30.19	+ 4	22.25	+ 2	14.42	+ 1	24.95	− 8
16	39.36	+ 3	48.66	+ 9	30.35	+ 3	22.34	+ 5	14.42	+ 2	24.59	− 9
17	39.62	− 3	48.93	+10	30.51	+ 1	22.44	+ 8	14.43	+ 3	24.24	− 7
18	39.88	− 9	49.20	+ 9	30.67	− 1	22.53	+11	14.44	+ 4	23.89	− 3
19	40.13	−14	49.48	+ 7	30.82	− 3	22.63	+11	14.45	+ 4	23.54	+ 1
20	40.38	−17	49.76	+ 3	30.97	− 5	22.74	+ 9	14.47	+ 3	23.19	+ 5
21	40.62	−17	50.04	− 1	31.13	− 6	22.85	+ 4	14.49	+ 2	22.83	+ 8
22	40.84	−14	50.32	− 6	31.28	− 6	22.97	− 1	14.52	+ 1	22.49	+10
23	41.06	− 8	50.61	− 9	31.42	− 5	23.10	− 4	14.54	− 1	22.15	+10
24	41.27	0	50.91	− 9	31.57	− 2	23.23	− 7	14.57	− 2	21.80	+ 8
25	41.47	+ 7	51.20	− 9	31.71	+ 1	23.37	− 9	14.61	− 3	21.46	+ 4
26	41.66	+13	51.50	− 5	31.86	+ 4	23.51	− 9	14.64	− 3	21.12	− 2
27	41.84	+16	51.80	− 1	32.00	+ 6	23.66	− 6	14.68	− 3	20.79	− 7
28	42.02	+16	52.09	+ 5	32.14	+ 6	23.82	− 2	14.72	− 1	20.44	− 9
29	42.19	+12	52.40	+ 8	32.27	+ 6	23.98	+ 2	14.77	0	20.11	−10
30	42.35	+ 6	52.70	+10	32.41	+ 4	24.15	+ 5	14.82	+ 1	19.77	− 9
31	42.50	− 1	53.00	+ 9	32.54	+ 2	24.32	+ 7	14.87	+ 2	19.44	− 5
32	42.64	− 6	53.30	+ 5	32.67	− 1	24.41	+ 7	14.92	+ 2	19.10	− 1
sec δ, tg δ	20.33		+20.30		6.92		+6.85		7.34		+7.28	

1916	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$	in s 0.01	+86° 36′	in ″ 0.01	$19^h 0^m$	in s 0.01	+89° 1′	in ″ 0.01	$20^h 48^m$	in s 0.01	+82° 13′	in ″ 0.01
Nov. 29	36.01	− 9	55.63	+ 3	78.80	−32	12.52	+ 6	34.21	− 1	48.74	+10
30	35.78	−10	55.34	− 2	77.73	−41	12.30	+ 2	34.05	− 3	48.64	+ 8
Dez. 1	35.57	− 9	55.04	− 6	76.68	−40	12.08	− 3	33.89	− 4	48.55	+ 2
2	35.36	− 6	54.75	− 9	75.65	−31	11.84	− 7	33.73	− 4	48.45	− 3
3	35.15	− 2	54.45	−10	74.64	−16	11.60	− 8	33.58	− 4	48.34	− 7
4	34.95	+ 3	54.14	− 8	73.65	+ 1	11.37	− 8	33.42	− 2	48.24	− 8
5	34.76	+ 5	53.84	− 5	72.67	+15	11.12	− 5	33.27	0	48.12	− 7
6	34.58	+ 7	53.53	0	71.72	+24	10.87	− 2	33.12	+ 2	47.99	− 4
7	34.40	+ 6	53.21	+ 5	70.78	+26	10.62	+ 2	32.97	+ 3	47.86	− 1
8	34.23	+ 4	52.90	+ 7	69.86	+22	10.37	+ 5	32.82	+ 3	47.73	+ 3
9	34.07	+ 1	52.58	+10	68.97	+13	10.12	+ 8	32.67	+ 3	47.60	+ 6
10	33.91	− 2	52.26	+10	68.09	+ 1	9.86	+ 9	32.52	+ 2	47.45	+ 8
11	33.76	− 5	51.94	+ 8	67.24	−11	9.60	+ 9	32.38	+ 1	47.30	+ 8
12	33.61	− 7	51.62	+ 5	66.41	−21	9.33	+ 6	32.24	0	47.16	+ 7
13	33.47	− 8	51.31	0	65.60	−26	9.06	+ 4	32.10	− 1	47.00	+ 5
14	33.34	− 7	51.00	− 3	64.80	−27	8.79	0	31.96	− 2	46.83	+ 2
15	33.22	− 5	50.68	− 6	64.03	−23	8.52	− 4	31.82	− 3	46.67	− 2
16	33.11	− 2	50.36	− 9	63.29	−14	8.24	− 7	31.69	− 3	46.49	− 5
17	33.00	+ 2	50.03	−10	62.56	− 1	7.96	− 8	31.55	− 2	46.29	− 8
18	32.89	+ 6	49.69	− 8	61.86	+14	7.67	− 9	31.42	− 1	46.10	−10
19	32.80	+ 9	49.36	− 6	61.18	+29	7.39	− 7	31.29	0	45.91	−11
20	32.71 32.63	+11 +12	49.04 48.70	− 2 + 2	60.52	+40	7.09	− 4	31.17	+ 2	45.71	− 9
21	32.56	+ 9	48.37	+ 6	59.89	+44	6.80	− 1	31.04	+ 3	45.51	− 6
22	32.50	+ 6	48.03	+ 9	59.28	+41	6.50	+ 3	30.92	+ 4	45.30	− 2
23	32.44	+ 1	47.70	+10	58.70	+30	6.21	+ 6	30.80	+ 4	45.08	+ 4
24	32.39	− 5	47.37	+ 9	58.13	+13	5.91	+ 8	30.68	+ 3	44.87	+ 8
25	32.34	− 8	47.03	+ 6	57.59	− 8	5.60	+ 8	30.56	+ 2	44.66	+ 9
26	32.31	−10	46.68	+ 1	57.08	−26	5.31	+ 5	30.45	0	44.43	+10
27	32.28	−10	46.34	− 5	56.59	−38	5.00	+ 2	30.33	− 2	44.21	+ 8
28	32.26	− 7	46.00	− 8	56.12	−42	4.70	− 3	30.22	− 4	43.97	+ 3
29	32.24	− 3	45.68	−10	55.68	−37	4.39	− 7	30.11	− 4	43.73	− 2
30	32.24	+ 1	45.34	−10	55.27	−24	4.08	− 8	30.01	− 4	43.49	− 5
31	32.24	+ 4	45.00	− 7	54.88	− 8	3.76	− 9	29.90	− 3	43.24	− 8
32	32.24	+ 6	44.67	− 3	54.51	+ 8	3.44	− 6	29.80	− 1	42.98	− 7
sec δ, tg δ	16.93		+16.90		89° 1′ 0″ 10	58.270 58.435	+58.261 +58.426		7.39		+7.32	

1916	Octantis 4 G. 6^m				ζ Octantis $6^m - 5^m$				ι Octantis $6^m - 5^m$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in $0^s.01$	$-85° 11'$	in $0''.01$	$9^h 9^m$	in $0^s.01$	$-85° 19'$	in $0''.01$	$12^h 45^m$	in $0^s.01$	$-84° 39'$	in $0''.01$
Jan. 1	$13^s.84$	−2	$51''.89$	−13	$14^s.85$	+8	$30''.58$	+3	$58^s.75$	+2	$49''.00$	+11
2	13.56	−5	51.91	−10	14.98	+8	30.92	−2	59.02	+6	49.09	+7
3	13.29	−7	51.92	−7	15.10	+6	31.26	−7	59.28	+8	49.20	+2
4	13.02	−8	51.93	−1	15.22	+4	31.61	−10	59.54	+8	49.31	−4
5	12.74	−7	51.93	+4	15.33	0	31.95	−11	59.80	+7	49.43	−9
6	12.47	−4	51.92	+9	15.44	−4	32.30	−9	60.06	+3	49.55	−11
7	12.19	0	51.91	+12	15.55	−7	32.65	−5	60.32	0	49.67	−12
8	11.92	+5	51.90	+11	15.65	−9	33.01	−2	60.58	−4	49.79	−10
9	11.64	+7	51.89	+11	15.74	−8	33.37	+3	60.83	−6	49.92	−6
10	11.36	+7	51.86	+6	15.83	−6	33.74	+6	61.09	−7	50.05	−2
11	11.08	+7	51.83	+2	15.92	−3	34.11	+7	61.35	−6	50.19	+2
12	10.81	+5	51.79	−2	16.00	0	34.48	+7	61.60	−4	50.34	+5
13	10.53	+2	51.73	−5	16.08	+3	34.84	+5	61.85	−1	50.51	+6
14	10.25	−1	51.68	−7	16.15	+5	35.21	+1	62.10	+2	50.67	+7
15	9.98	−4	51.63	−7	16.22	+6	35.58	−2	62.35	+5	50.84	+6
16	9.70	−6	51.57	−6	16.28	+6	35.96	−5	62.60	+6	51.01	+3
17	9.42	−7	51.49	−4	16.34	+5	36.33	−7	62.85	+7	51.19	0
18	9.15	−7	51.42	0	16.39	+3	36.72	−8	63.09	+7	51.37	−3
19	8.87	−5	51.34	+2	16.43	+1	37.09	−7	63.34	+5	51.56	−6
20	8.60	−3	51.25	+5	16.48	−2	37.47	−6	63.58	+2	51.76	−7
21	8.32	0	51.16	+7	16.52	−4	37.85	−3	63.82	−1	51.97	−7
22	8.05	+3	51.06	+7	16.55	−6	38.23	+2	64.06	−4	52.17	−5
23	7.77	+6	50.95	+6	16.58	−6	38.61	+5	64.30	−7	52.39	−2
24	7.50	+8	50.84	+2	16.60	−5	38.99	+9	64.53	−8	52.61	+2
25	7.23	+8	50.73	−2	16.62	−2	39.38	+11	64.77	−8	52.83	+6
26	6.96	+7	50.60	−7	16.63	+1	39.76	+12	65.00	−6	53.06	+10
27	6.69	+4	50.47	−11	16.64	+4	40.15	+9	65.23	−3	53.29	+12
28	6.42	0	50.34	−12	16.64	+7	40.54	+5	65.46	+1	53.53	+11
29	6.15	−4	50.20	−11	16.64	+8	40.93	0	65.68	+4	53.78	+8
30	5.88	−7	50.05	−9	16.64	+8	41.31	−5	65.90	+7	54.03	+4
31	5.62	−8	49.91	−3	16.63	+5	41.70	−9	66.12	+8	54.28	−1
Febr. 1	5.35	−7	49.75	+2	16.61	+2	42.09	−10	66.34	+7	54.54	−7
2	5.10	−5	49.58	+7	16.59	−3	42.48	−9	66.56	+4	54.80	−10
3	4.83	−1	49.41	+11	16.57	−6	42.88	−6	66.77	+1	55.07	−11
4	4.57	+2	49.24	+12	16.54	−8	43.26	−2	66.98	−3	55.34	−11
5	4.32	+5	49.05	+11	16.50	−8	43.65	+2	67.19	−6	55.61	−7
6	4.06	+7	48.86	+8	16.46	−7	44.04	+5	67.40	−7	55.89	−3
7	3.81	+7	48.66	+3	16.42	−5	44.43	+7	67.60	−7	56.18	+1
sec δ, tg δ	11.94		−11.90		12.27		−12.23		10.75		−10.71	

1916	Octantis 20 G. 7ᵐ				Octantis 26 G. 6ᵐ–7ᵐ				χ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in 0.01 s	−87° 48′	in 0.01″	$16^h 29^m$	in 0.01 s	−86° 12′	in 0.01″	$18^h 5^m$	in 0.01 s	−87° 39′	in 0.01″
Jan. 1	25.70 s	−2	25.44″	+11	5.36 s	−7	46.55″	+10	13.34 s	−16	54.52″	+8
2	26.31	+8	25.35	+10	5.64	0	46.30	+11	13.58	−7	54.19	+10
3	26.92	+16	25.26	+5	5.92	+6	46.07	+9	13.83	+3	53.87	+11
4	27.54	+20	25.17	0	6.20	+11	45.84	+6	14.09	+12	53.55	+8
5	28.16	+19	25.09	−5	6.49	+13	45.62	+1	14.36	+19	53.22	+4
6	28.78	+15	25.01	−9	6.79	+13	45.40	−5	14.63	+22	52.90	−1
7	29.41	+7	24.94	−12	7.09	+9	45.19	−9	14.92	+20	52.59	−6
8	30.04	−1	24.88	−12	7.39	+5	44.97	−11	15.22	+14	52.27	−9
9	30.67	−8	24.82	−10	7.70	+1	44.77	−12	15.53	+7	51.97	−10
10	31.31	−13	24.77	−7	8.01	−4	44.58	−8	15.85	−1	51.66	−10
11	31.95	−14	24.73	−2	8.33	−7	44.39	−5	16.18	−7	51.35	−7
12	32.59	−12	24.68	+2	8.65	−8	44.21	−1	16.51	−11	51.05	−3
13	33.24	−7	24.65	+6	8.97	−6	44.02	+3	16.86	−12	50.75	+2
14	33.89	0	24.62	+7	9.30	−4	43.84	+7	17.21	−10	50.45	+6
15	34.54	+6	24.60	+8	9.63	0	43.66	+10	17.57	−6	50.15	+9
16	35.19	+11	24.58	+6	9.97	+3	43.50	+10	17.94	−1	49.86	+9
17	35.85	+15	24.57	+4	10.31	+6	43.33	+7	18.32	+4	49.57	+9
18	36.50	+16	24.56	+1	10.65	+8	43.17	+4	18.71	+9	49.29	+7
19	37.16	+14	24.56	−3	11.00	+9	43.01	+2	19.11	+12	49.01	+3
20	37.82	+9	24.57	−5	11.35	+7	42.85	−3	19.51	+12	48.73	−1
21	38.48	+3	24.58	−7	11.70	+5	42.70	−6	19.92	+11	48.45	−5
22	39.15	−5	24.60	−7	12.06	+1	42.55	−8	20.34	+6	48.18	−8
23	39.81	−13	24.63	−6	12.42	−4	42.41	−8	20.77	−1	47.91	−9
24	40.47	−19	24.66	−4	12.78	−9	42.28	−7	21.21	−8	47.65	−10
25	41.14	−22	24.69	+1	13.14	−12	42.16	−4	21.65	−15	47.39	−8
26	41.80	−20	24.73	+5	13.51	−14	42.03	+1	22.10	−20	47.13	−3
27	42.47	−15	24.78	+10	13.88	−13	41.92	+5	22.56	−22	46.87	+1
28	43.13	−6	24.83	+11	14.25	−9	41.80	+9	23.03	−18	46.62	+6
29	43.80	+3	24.89	+11	14.63	−3	41.69	+11	23.50	−11	46.38	+9
30	44.46	+12	24.96	+8	15.00	+3	41.58	+10	23.98	−2	46.14	+11
31	45.13	+18	25.03	+4	15.38	+8	41.49	+7	24.47	+8	45.91	+9
Febr. 1	45.79	+19	25.11	−1	15.77	+11	41.39	+2	24.96	+15	45.68	+5
2	46.46	+16	25.18	−7	16.15	+12	41.30	−3	25.46	+20	45.45	+1
3	47.12	+9	25.26	−11	16.54	+10	41.22	−7	25.97	+20	45.21	−4
4	47.78	+1	25.36	−12	16.92	+6	41.14	−11	26.49	+16	44.99	−9
5	48.44	−7	25.45	−10	17.31	+1	41.07	−11	27.01	+9	44.77	−11
6	49.10	−12	25.55	−8	17.70	−3	41.00	−10	27.53	+2	44.55	−10
7	49.76	−14	25.66	−4	18.10	−6	40.94	−6	28.06	−5	44.33	−8
sec δ, tg δ	87° 48′ 20″	26.116	−26.097		15.14		−15.10		87° 39′ 40″	24.504	−24.483	
	30	26.149	−26.130						50	24.533	−24.513	

1916	σ Octantis 6^m				β Octantis 4^m.1				τ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19^h 25^m	in ^{s} 0.01	−89° 13′	in ″ 0.01	22^h 37^m	in ^{s} 0.01	−81° 49′	in ″ 0.01	23^h 15^m	in ^{s} 0.01	−87° 56′	in ″ 0.01
Jan. 1	4.25	−63	43.44	0	32.21	−6	35.77	−8	58.27	−14	53.02	−11
2	4.32	−54	43.09	+6	32.10	−6	35.54	−4	57.74	−20	52.82	−6
3	4.43	−34	42.73	+9	31.99	−5	35.31	+2	57.21	−21	52.62	−1
4	4.57	−8	42.37	+11	31.89	−4	35.07	+8	56.69	−17	52.42	+6
5	4.75	+21	42.02	+9	31.78	−1	34.84	+11	56.17	−9	52.20	+10
6	4.95	+46	41.66	+7	31.68	+2	34.59	+11	55.66	+1	51.98	+11
7	5.18	+60	41.30	+3	31.58	+5	34.34	+11	55.15	+11	51.76	+11
8	5.44	+63	40.96	−3	31.48	+6	34.08	+7	54.65	+18	51.54	+8
9	5.74	+53	40.60	−6	31.39	+7	33.82	+2	54.15	+22	51.30	+4
10	6.06	+35	40.24	−9	31.29	+6	33.56	−1	53.66	+21	51.06	0
11	6.42	+12	39.89	−9	31.20	+4	33.29	−4	53.18	+16	50.81	−3
12	6.81 7.22	−9 −26	39.52 39.16	−8 −4	31.11	+1	33.01	−6	52.71	+8	50.55	−6
13	7.67	−35	38.81	0	31.02	−1	32.73	−7	52.24	−1	50.30	−6
14	8.15	−37	38.46	+4	30.94	−3	32.46	−5	51.78	−9	50.04	−6
15	8.65	−31	38.10	+6	30.86	−5	32.17	−2	51.32	−15	49.76	−4
16	9.19	−19	37.75	+7	30.77	−5	31.88	0	50.88	−18	49.50	−1
17	9.76	−4	37.40	+9	30.69	−4	31.58	+3	50.44	−17	49.22	+2
18	10.35	+12	37.04	+9	30.62	−3	31.29	+7	50.01	−14	48.94	+6
19	10.97	+26	36.70	+6	30.54	−1	30.99	+8	49.58	−9	48.66	+7
20	11.62	+34	36.36	+2	30.47	+1	30.68	+6	49.16	−1	48.38	+8
21	12.30	+36	36.02	−2	30.40	+3	30.37	+6	48.75	+6	48.09	+6
22	13.01	+29	35.66	−6	30.33	+4	30.06	+3	48.35	+13	47.78	+4
23	13.75	+14	35.31	−9	30.26	+5	29.74	0	47.96	+17	47.48	0
24	14.52	−7	34.96	−10	30.20	+4	29.41	−6	47.58	+18	47.18	−4
25	15.31	−29	34.63	−9	30.14	+2	29.09	−9	47.20	+15	46.87	−8
26	16.13	−49	34.29	−7	30.08	0	28.77	−12	46.83	+8	46.56	−11
27	16.98	−59	33.96	−3	30.02	−3	28.43	−12	46.47	+1	46.24	−13
28	17.85	−59	33.62	+2	29.97	−5	28.10	−10	46.12	−10	45.91	−11
29	18.75	−46	33.29	+6	29.91	−6	27.76	−6	45.78	−18	45.59	−8
30	19.68	−23	32.96	+9	29.86	−6	27.42	−1	45.44	−21	45.26	−3
31	20.63	+5	32.63	+10	29.82	−5	27.08	+4	45.11	−19	44.92	+2
Febr. 1	21.61	+32	32.30	+9	29.77	−2	26.73	+9	44.80	−13	44.58	+7
2	22.62	+51	31.98	+5	29.73	+1	26.38	+11	44.49	−4	44.25	+11
3	23.65	+60	31.65	0	29.69	+4	26.03	+10	44.19	+7	43.92	+12
4	24.70	+55	31.34	−3	29.65	+6	25.68	+8	43.90	+15	43.57	+10
5	25.78	+41	31.03	−7	29.61	+6	25.32	+5	43.61	+20	43.22	+6
6	26.88	+20	30.72	−8	29.58	+6	24.96	−1	43.34	+21	42.88	+2
7	28.01	−2	30.41	−7	29.54	+4	24.61	−4	43.07	+18	42.52	−3
sec δ, tg δ	89° 13′ 30″ 40	73.932 74.198	−73.926 −74.191		7.03		−6.96		87° 56′ 40″ 50	27.880 27.917	−27.862 −27.899	

1916	Octantis 4 G. 6^m				ζ Octantis 6^m–5^m				ι Octantis 6^m–5^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h 41^m	in s 0.01	−85° 11′	in ″ 0.01	9^h 9^m	in s 0.01	−85° 19′	in ″ 0.01	12^h 46^m	in s 0.01	−84° 39′	in ″ 0.01
Febr. 7	63.81	+7	48.66	+3	16.42	−5	44.43	+7	7.60	−7	56.18	+1
8	63.55	+6	48.47	−1	16.37	−1	44.82	+8	7.80	−5	56.46	+5
9	63.30	+3	48.27	−5	16.32	+2	45.21	+6	8.00	−2	56.75	+7
10	63.05	0	48.06	−7	16.26	+4	45.60	+3	8.20	+1	57.05	+6
11	62.81	−3	47.85	−7	16.20	+6	45.98	−2	8.39	+4	57.35	+6
12	62.56	−6	47.64	−7	16.13	+6	46.36	−4	8.58	+6	57.65	+4
13	62.32	−7	47.42	−5	16.06	+5	46.74	−6	8.76	+7	57.96	+1
14	62.08	−7	47.19	−2	15.98	+4	47.12	−8	8.95	+7	58.27	−1
15	61.84	−6	46.96	+1	15.90	+1	47.50	−8	9.13	+6	58.59	−4
16	61.60	−4	46.72	+5	15.81	−1	47.88	−7	9.31	+4	58.90	−7
17	61.37	−1	46.49	+7	15.72	−4	48.26	−4	9.48	+1	59.23	−7
18	61.14	+2	46.24	+7	15.63	−6	48.64	0	9.66	−3	59.55	−6
19	60.91	+5	45.99	+7	15.53	−6	49.01	+4	9.82	−6	59.88	−4
20	60.68	+7	45.73	+4	15.43	−5	49.38	+8	9.99	−8	60.22	−1
21	60.46	+8	45.47	0	15.32	−4	49.75	+10	10.15	−8	60.55	+3
22	60.24	+7	45.20	−4	15.21	0	50.12	+11	10.31	−7	60.89	+8
23	60.02	+5	44.93	−8	15.10	+3	50.48	+10	10.47	−5	61.23	+11
24	59.80	+2	44.67	−11	14.98	+6	50.85	+6	10.62	−1	61.58	+12
25	59.59	−2	44.39	−12	14.86	+8	51.21	+1	10.77	+3	61.91	+9
26	59.38	−6	44.10	−9	14.73	+8	51.58	−4	10.92	+6	62.25	+6
27	59.17	−8	43.82	−5	14.60	+6	51.94	−8	11.07	+8	62.61	+1
28	58.97	−8	43.53	0	14.46	+3	52.30	−10	11.21	+7	62.96	−3
29	58.76	−6	43.24	+5	14.32	−1	52.66	−10	11.34	+6	63.31	−8
März 1	58.57	−3	42.95	+8	14.18	−5	53.01	−7	11.48	+2	63.67	−10
2	58.37	+1	42.65	+11	14.03	−7	53.37	−3	11.61	−2	64.03	−10
3	58.18	+4	42.36	+11	13.88	−8	53.72	+1	11.74	−5	64.40	−9
4	57.99	+7	42.05	+9	13.73	−8	54.06	+5	11.86	−7	64.76	−5
5	57.80	+7	41.73	+5	13.57	−5	54.39	+8	11.98	−6	65.13	−1
6	57.61	+6	41.43	+1	13.40	−2	54.73	+7	12.10	−6	65.50	+3
7	57.43	+4	41.12	−3	13.23	+1	55.07	+7	12.21	−4	65.86	+5
8	57.25	+1	40.81	−7	13.07	+4	55.40	+4	12.32	−1	66.23	+6
9	57.08	−2	40.49	−7	12.90	+6	55.74	0	12.43	+3	66.60	+6
10	56.91	−5	40.15	−8	12.72	+6	56.08	−4	12.54	+5	66.98	+5
11	56.74	−7	39.82	−5	12.54	+6	56.41	−6	12.64	+7	67.36	+2
12	56.58	−7	39.49	−3	12.36	+4	56.74	−8	12.73	+7	67.73	−1
13	56.41	−7	39.15	+1	12.18	+2	57.06	−9	12.83	+6	68.11	−4
14	56.26	−5	38.81	+4	11.99	0	57.37	−7	12.92	+4	68.50	−5
15	56.10	−2	38.47	+6	11.79	−3	57.69	−5	13.00	+2	68.88	−7
sec δ, tg δ	11.94		−11.90		12.28		−12.24		10.76		−10.71	

Scheinbare Sternörter 1916

1916	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in s 0.01	$-87° 48'$	in " 0.01	$16^h 29^m$	in s 0.01	$-86° 12'$	in " 0.01	$18^h 5^m$	in s 0.01	$-87° 39'$	in " 0.01
Febr. 7	49.76	−14	25.66	− 4	18.10	− 6	40.94	− 6	28.06	− 5	44.33	− 8
8	50.41	−13	25.77	+ 1	18.49	− 8	40.88	− 2	28.60	−10	44.12	− 4
9	51.07	− 9	25.90	+ 5	18.89	− 7	40.83	+ 2	29.14	−12	43.91	0
10	51.72	− 3	26.02	+ 7	19.28	− 5	40.80	+ 6	29.69	−11	43.71	+ 4
11	52.37	+ 4	26.15	+ 7	19.68	− 1	40.75	+ 8	30.24	− 7	43.51	+ 8
12	53.01	+10	26.27	+ 7	20.08	+ 2	40.71	+ 9	30.80	− 3	43.31	+ 9
13	53.66	+14	26.41	+ 5	20.48	+ 5	40.68	+ 9	31.37	+ 3	43.12	+ 9
14	54.30	+16	26.56	+ 2	20.88	+ 8	40.65	+ 6	31.94	+ 8	42.95	+ 7
15	54.94	+15	26.71	− 1	21.28	+ 9	40.63	+ 2	32.51	+11	42.77	+ 5
16	55.58	+11	26.86	− 4	21.69	+ 8	40.62	− 2	33.09	+13	42.59	+ 1
17	56.21	+ 6	27.02	− 7	22.09	+ 6	40.62	− 5	33.67	+12	42.42	− 3
18	56.84	− 2	27.19	− 8	22.49	+ 3	40.62	− 7	34.26	+ 9	42.26	− 7
19	57.47	− 9	27.35	− 8	22.90	− 2	40.62	− 9	34.85	+ 3	42.11	−10
20	58.09	−16	27.53	− 5	23.30	− 7	40.63	− 8	35.44	− 5	41.95	−10
21	58.71	−20	27.71	− 1	23.71	−11	40.64	− 6	36.04	−12	41.80	− 8
22	59.33	−20	27.90	+ 4	24.11	−13	40.65	− 2	36.65	−18	41.65	− 6
23	59.94	−16	28.09	+ 7	24.52	−13	40.67	+ 3	37.25	−20	41.50	− 1
24	60.55	− 9	28.28	+11	24.92	−10	40.69	+ 7	37.86	−19	41.36	+ 4
25	61.15	0	28.48	+11	25.33	− 5	40.72	+10	38.48	−14	41.24	+ 8
26	61.75	+ 9	28.69	+ 9	25.73	+ 1	40.76	+11	39.10	− 6	41.11	+10
27	62.35	+16	28.89	+ 5	26.14	+ 6	40.79	+ 9	39.72	+ 4	40.99	+10
28	62.94	+18	29.11	+ 1	26.54	+10	40.84	+ 5	40.34	+12	40.88	+ 7
29	63.53	+17	29.33	− 5	26.94	+12	40.89	0	40.96	+17	40.77	+ 2
März 1	64.11	+12	29.55	− 9	27.35	+11	40.95	− 4	41.59	+19	40.67	− 3
2	64.69	+ 4	29.78	−11	27.75	+ 7	41.01	− 8	42.22	+16	40.56	− 7
3	65.26	− 5	30.01	−11	28.15	+ 3	41.08	−11	42.85	+11	40.46	−10
4	65.83	−11	30.23	− 8	28.55	− 2	41.15	−11	43.49	+ 3	40.36	−11
5	66.39	−14	30.47	− 4	28.95	− 6	41.23	− 8	44.12	− 4	40.27	− 9
6	66.95	−14	30.71	0	29.35	− 8	41.31	− 3	44.76	− 9	40.19	− 6
7	67.50	−11	30.96	+ 4	29.75	− 8	41.40	+ 1	45.40	−12	40.11	− 2
8	68.05	− 5	31.21	+ 7	30.15	− 6	41.49	+ 6	46.05	−12	40.03	+ 3
9	68.59	+ 2	31.46	+ 8	30.54	− 3	41.58	+ 8	46.69	− 9	39.96	+ 7
10	69.13	+ 8	31.72	+ 8	30.94	+ 1	41.67	+ 9	47.34	− 5	39.90	+ 9
11	69.66	+13	31.97	+ 5	31.33	+ 4	41.77	+ 9	47.98	+ 1	39.85	+10
12	70.18	+16	32.23	+ 3	31.72	+ 7	41.89	+ 6	48.63	+ 6	39.80	+ 8
13	70.69	+16	32.50	0	32.11	+ 8	42.01	+ 3	49.28	+10	39.75	+ 6
14	71.20	+13	32.77	− 4	32.50	+ 9	42.13	− 1	49.92	+12	39.70	+ 3
15	71.71	+ 8	33.05	− 5	32.88	+ 7	42.26	− 4	50.57	+12	39.66	− 1
sec δ, tg δ	87° 48′ 20″	26.116	−26.097		15.13		−15.10		87° 39′ 40″	24.504	−24.483	
	30	26.149	−26.130						50	24.533	−24.513	

1916	σ Octantis 6ᵐ AR.	☾ Gl.	Dekl.	☾ Gl.	β Octantis 4ᵐ.1 AR.	☾ Gl.	Dekl.	☾ Gl.	τ Octantis 6ᵐ AR.	☾ Gl.	Dekl.	☾ Gl.
	19ʰ 25ᵐ	in ˢ 0.01	−89° 13′	in ″ 0.01	22ʰ 37ᵐ	in ˢ 0.01	−81° 49′	in ″ 0.01	23ʰ 15ᵐ	in ˢ 0.01	−87° 56′	in ″ 0.01
Febr. 7	28.01	− 2	30.41	− 7	29.54	+ 4	24.61	− 4	43.07	+18	42.52	− 3
8	29.16	−20	30.10	− 5	29.51	+ 2	24.25	− 6	42.82	+11	42.16	− 6
9	30.33	−32	29.80	− 1	29.49	− 1	23.89	− 6	42.57	+ 2	41.80	− 6
10	31.53	−36	29.50	+ 2	29.46	− 3	23.52	− 6	42.33	− 6	41.43	− 5
11	32.75	−33	29.20	+ 5	29.44	− 4	23.15	− 3	42.10	−13	41.07	− 4
12	33.99	−23	28.90	+ 7	29.42	− 5	22.79	0	41.89	−17	40.69	− 1
13	35.25	− 8	28.59	+ 8	29.40	− 4	22.42	+ 3	41.68	−18	40.33	+ 3
14	36.53	+ 7	28.30	+ 8	29.39	− 3	22.04	+ 5	41.48	−16	39.95	+ 6
15	37.84	+22	28.01	+ 6	29.38	− 2	21.67	+ 7	41.29	−11	39.58	+ 7
16	39.16	+33	27.73	+ 4	29.37	0	21.29	+ 8	41.11	− 4	39.20	+ 7
17	40.51	+37	27.44	0	29.36	+ 2	20.91	+ 7	40.93	+ 3	38.83	+ 7
18	41.88	+34	27.16	− 4	29.35	+ 4	20.54	+ 4	40.77	+11	38.45	+ 6
19	43.26	+22	26.89	− 8	29.35	+ 4	20.16	+ 1	40.61	+16	38.07	+ 2
20	44.66	+ 4	26.62	−10	29.35	+ 4	19.78	− 3	40.47	+18	37.68	− 1
21	46.09	−17	26.35	− 9	29.35	+ 3	19.40	− 7	40.34	+16	37.31	− 6
22	47.53	−38	26.09	− 8	29.36	+ 1	19.01	−11	40.21	+11	36.92	−10
23	48.99	−53	25.82	− 5	29.36	− 1	18.63	−11	40.10	+ 3	36.55	−12
24	50.47	−58	25.56	0	29.37	− 4	18.25	−10	39.99	− 7	36.16	−13
25	51.96	−50	25.31	+ 4	29.39	− 6	17.86	− 7	39.89	−15	35.78	− 9
26	53.48	−32	25.07	+ 8	29.40	− 6	17.49	− 2	39.81	−20	35.39	− 4
27	55.01	− 7	24.82	+ 9	29.42	− 5	17.10	+ 4	39.73	−21	35.01	+ 1
28	56.55	+20	24.57	+ 8	29.44	− 3	16.72	+ 9	39.66	−16	34.61	+ 7
29	58.11	+42	24.33	+ 5	29.46	0	16.35	+12	39.60	− 8	34.22	+10
März 1	59.69	+55	24.10	+ 1	{ 29.48 29.50	+ 2 + 5	15.96 15.58	+ 11 + 9	39.55	+ 2	33.84	+11
2	61.28	+55	23.87	− 3	29.53	+ 6	15.20	+ 5	39.51	+12	33.44	+ 9
3	62.89	+45	23.65	− 6	29.56	+ 6	14.81	+ 1	39.48	+19	33.05	+ 7
4	64.51	+26	23.42	− 8	29.59	+ 5	14.43	− 3	39.46	+21	32.66	+ 3
5	66.15	+ 4	23.20	− 8	29.63	+ 3	14.04	− 5	39.45	+19	32.26	− 2
6	67.80	−16	22.99	− 7	29.67	0	13.66	− 7	39.45	+14	31.87	− 5
7	69.46	−30	22.78	− 3	29.71	− 2	13.27	− 7	39.45	+ 6	31.47	− 6
8	71.13	−36	22.58	+ 1	29.75	− 4	12.89	− 4	39.47	− 3	31.09	− 7
9	72.82	−35	22.37	+ 4	29.79	− 5	12.51	− 2	39.50	−11	30.69	− 5
10	74.52	−27	22.17	+ 7	29.84	− 5	12.12	+ 1	39.53	−16	30.29	− 2
11	76.23	−14	21.97	+ 8	29.89	− 4	11.74	+ 4	{ 39.58 39.63	− 18 − 17	29.90 29.50	+ 1 + 3
12	77.95	+ 2	21.78	+ 9	29.94	− 2	11.37	+ 6	39.69	−13	29.10	+ 5
13	79.68	+17	21.60	+ 7	29.99	− 1	10.99	+ 7	39.76	− 7	28.71	+ 6
14	81.42	+29	21.42	+ 4	30.05	+ 2	10.61	+ 7	39.85	0	28.31	+ 8
15	83.17	+36	21.24	+ 1	30.11	+ 3	10.24	+ 6	39.94	+ 8	27.92	+ 6
sec δ, tg δ	89° 13′ 20″ 30	73.668 73.932	−73.661 −73.926		7.03		−6.96		87° 56′ 30″ 40	27.842 27.880	−27.824 −27.862	

1916	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ–5ᵐ				ι Octantis 6ᵐ–5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in $0^s.01$	−85° 11′	in $0''.01$	$9^h 9^m$	in $0^s.01$	−85° 19′	in $0''.01$	$12^h 46^m$	in $0^s.01$	−84° 40′	in $0''.01$
März 15	$56^s.10$	−2	$38''.47$	+6	$11^s.79$	−3	$57''.69$	−5	$13^s.00$	+2	$8''.88$	−7
16	55.95	+1	38.14	+7	11.60	−5	58.00	−2	13.09	−1	9.25	−7
17	55.81	+4	37.79	+7	11.40	−6	58.31	+3	13.17	−5	9.63	−4
18	55.66	+6	37.44	+5	11.20	−6	58.61	+7	13.24	−7	10.01	−2
19	55.52	+8	37.09	+2	10.99	−4	58.91	+10	13.31	−8	10.40	+2
20	55.39	+8	36.74	−2	10.78	−2	59.20	+11	13.38	−8	10.78	+5
21	55.25	+6	36.40	−6	10.57	+2	59.49	+10	13.45	−6	11.17	+9
22	55.12	+3	36.04	−11	10.36	+5	59.78	+8	13.51	−2	11.55	+10
23	55.00	−1	35.68	−12	10.14	+7	60.06	+3	13.57	+2	11.94	+10
24	54.88	−5	35.32	−10	9.92	+8	60.35	−1	13.62	+5	12.32	+7
25	54.76	−7	34.96	−7	9.70	+7	60.62	−6	13.68	+7	12.71	+2
26	54.64	−8	34.61	−2	9.48	+4	60.89	−9	13.73	+8	13.09	−2
27	54.53	−7	34.24	+4	9.25	+1	61.16	−11	13.77	+7	13.48	−7
28	54.42	−4	33.87	+8	9.02	−3	61.42	−8	13.81	+4	13.85	−10
29	54.32	−1	33.51	+11	8.79	−6	61.68	−5	13.85	0	14.24	−11
30	54.22	+3	33.14	+12	8.56	−8	61.93	−1	13.88	−3	14.61	−9
31	54.13	+6	32.77	+9	8.32	−8	62.18	+3	13.91	−6	15.00	−6
April 1	54.04	+7	32.40	+5	8.08	−6	62.43	+7	13.94	−7	15.39	−2
2	53.95	+7	32.03	+2	7.84	−4	62.68	+8	13.96	−7	15.77	+2
3	53.86	+5	31.65	−3	7.60	0	62.92	+8	13.98	−5	16.16	+5
4	53.78	+2	31.28	−5	7.35	+3	63.16	+5	14.00	−2	16.54	+7
5	53.71	−1	30.90	−8	7.10	+5	63.39	+3	14.01	+2	16.93	+7
6	53.64	−4	30.52	−8	6.85	+6	63.61	−1	14.02	+4	17.31	+6
7	53.57	−6	30.15	−6	6.60	+6	63.84	−5	14.03	+6	17.70	+3
8	53.50	−7	29.76	−3	6.35	+5	64.05	−7	14.03	+7	18.07	0
9	53.44	−7	29.38	0	6.10	+3	64.26	−8	14.03	+7	18.45	−3
10	53.39	−6	29.00	+3	5.84	+1	64.47	−8	14.03	+5	18.82	−5
11	53.33	−3	28.63	+5	5.58	−2	64.68	−7	14.02	+3	19.19	−7
12	53.29	0	28.25	+7	5.33	−4	64.88	−3	14.01	0	19.57	−7
13	53.24	+3	27.87	+7	5.06	−6	65.08	+1	13.99	−3	19.95	−5
14	53.20	+6	27.49	+6	4.80	−6	65.27	+4	13.98	−6	20.32	−3
15	53.17	+7	27.11	+2	4.54	−5	65.45	+9	13.95	−8	20.70	+1
16	53.13	+8	26.73	−1	4.27	−3	65.63	+11	13.93	−8	21.07	+5
17	{53.11 53.08	+7 +4	26.35 25.97	−5 −9	4.01	0	65.80	+10	13.90	−7	21.43	+8
18	53.06	+1	25.59	−11	3.74	+3	65.97	+9	13.87	−4	21.80	+10
19	53.05	−3	25.21	−11	3.47	+6	66.14	+5	13.83	0	22.15	+10
20	53.04	−6	24.83	−9	3.20	+8	66.30	0	13.80	+4	22.52	+8
21	53.03	−8	24.45	−4	2.93	+7	66.45	−5	13.75	+8	22.88	+4
sec δ, tg δ	11.93		−11.89		12.29		−12.25		10.77		−10.72	

1916	Octantis 20 G. 7ᵐ AR.	☾ Gl.	Dekl.	☾ Gl.	Octantis 26 G. 6ᵐ–7ᵐ AR.	☾ Gl.	Dekl.	☾ Gl.	χ Octantis 6ᵐ AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 46^m$	in 0.01 s	−87° 48′	in 0.01″	$16^h 29^m$	in 0.01 s	−86° 12′	in 0.01″	$18^h 5^m$	in 0.01 s	−87° 39′	in 0.01″
März 15	11.71	+ 8	33.05	− 5	32.88	+ 7	42.26	− 4	50.57	+12	39.66	− 1
16	12.21	+ 1	33.32	− 7	33.27	+ 4	42.39	− 7	51.22	+10	39.62	− 5
17	12.70	− 6	33.60	− 7	33.65	0	42.51	− 8	51.87	+ 5	39.59	− 9
18	13.19	−13	33.88	− 5	34.03	− 5	42.64	− 8	52.52	− 1	39.56	−10
19	13.67	−18	34.17	− 2	34.41	− 9	42.78	− 6	53.17	− 9	39.53	− 9
20	14.14	−20	34.47	+ 2	34.79	−12	42.92	− 3	53.82	−15	39.51	− 7
21	14.61	−18	34.77	+ 7	35.16	−13	43.07	+ 1	54.47	−19	39.50	− 2
22	15.07	−12	35.05	+10	35.54	−11	43.22	+ 6	55.12	−19	39.49	+ 3
23	15.52	− 3	35.35	+11	35.91	− 7	43.38	+ 9	55.77	−15	39.49	+ 7
24	15.97	+ 6	35.65	+ 9	36.28	− 1	43.53	+11	56.42	− 8	39.49	+10
25	16.41	+14	35.96	+ 7	36.64	+ 5	43.70	+10	57.07	+ 1	39.49	+11
26	16.84	+19	36.27	+ 2	37.00	+ 9	43.87	+ 6	57.72	+10	39.51	+ 8
27	17.26	+19	36.58	− 3	37.36	+12	44.04	+ 1	58.37	+16	39.53	+ 5
28	17.68	+14	36.89	− 8	37.72	+12	44.22	− 4	59.01	+19	39.55	− 1
29	18.09	+ 7	37.21	−11	38.08	+ 9	44.40	− 9	59.65	+18	39.57	− 5
30	18.49	− 1	37.53	−11	38.43	+ 4	44.58	−11	60.30	+13	39.59	− 9
31	18.89	− 9	37.84	− 9	38.78	− 1	44.77	−11	60.94	+ 6	39.62	−10
April 1	19.28	−14	38.16	− 6	39.13	− 5	44.97	− 8	61.58	− 2	39.66	−10
2	19.66	−15	38.49	− 1	39.47	− 8	45.17	− 4	62.22	− 8	39.71	− 7
3	20.03	−13	38.82	+ 3	39.81	− 8	45.37	− 1	62.85	−12	39.76	− 3
4	20.40	− 8	39.15	+ 5	40.15	− 7	45.57	+ 4	63.49	−13	39.82	+ 2
5	20.75	− 2	39.47	+ 8	40.49	− 4	45.79	+ 6	64.12	−11	39.88	+ 6
6	21.10	+ 5	39.80	+ 8	40.82	− 1	46.00	+ 9	64.75	− 7	39.95	+ 9
7	21.44	+11	40.13	+ 7	41.15	+ 3	46.22	+ 9	65.38	− 2	40.02	+ 9
8	21.78	+15	40.47	+ 5	41.47	+ 6	46.44	+ 7	66.00	+ 4	40.09	+ 9
9	22.10	+16	40.81	+ 2	41.79	+ 8	46.67	+ 5	66.62	+ 8	40.16	+ 8
10	22.42	+14	41.15	− 2	42.11	+ 9	46.90	+ 2	67.24	+11	40.24	+ 5
11	22.73	+10	41.48	− 4	42.43	+ 7	47.13	− 2	67.86	+12	40.33	+ 1
12	23.03	+ 3	41.83	− 7	42.74	+ 5	47.35	− 5	68.47	+11	40.42	− 3
13	23.32	− 4	42.18	− 8	43.04	+ 1	47.58	− 8	69.08	+ 7	40.52	− 7
14	23.61	−11	42.52	− 7	43.35	− 3	47.81	− 8	69.69	+ 1	40.62	− 9
15	23.89	−17	42.87	− 4	43.65	− 8	48.05	− 8	70.29	− 6	40.72	− 9
16	24.15	−20	43.20	− 1	43.95	−11	48.30	− 5	70.89	−13	40.82	− 7
17	24.41	−19	43.55	+ 4	44.24	−13	48.54	− 1	71.49	−18	40.93	− 4
18	24.66	−14	43.89	+ 8	44.53	−12	48.79	+ 4	72.08	−19	41.05	0
19	24.91	− 8	44.24	+10	44.81	− 8	49.04	+ 8	72.67	−17	41.17	+ 5
20	25.14	+ 3	44.59	+10	45.09	− 3	49.30	+10	73.25	−11	41.29	+ 9
21	25.37	+12	44.93	+ 8	45.37	+ 3	49.56	+11	73.83	− 2	41.42	+10
sec δ, tg δ	87° 48′ 30″ / 40	26.149 / 26.182	−26.130 / −26.163	15.14		−15.11		87° 39′ 40″ / 50	24.504 / 24.533	−24.483 / −24.513	

1916	σ Octantis 6ᵐ				β Octantis 4ᵐ.1				τ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 26^m$	in ^{s} 0.01	−89° 13′	in ″ 0.01	$22^h 37^m$	in ^{s} 0.01	−81° 48′	in ″ 0.01	$23^h 15^m$	in ^{s} 0.01	−87° 56′	in ″ 0.01
März 15	23.17	+36	21.24	+ 1	30.11	+3	70.24	+ 6	39.94	+ 8	27.92	+ 6
16	24.94	+36	21.07	− 3	30.17	+4	69.87	+ 2	40.04	+14	27.52	+ 4
17	26.71	+28	20.91	− 7	30.23	+5	69.49	− 1	40.15	+17	27.13	0
18	28.49	+12	20.75	−10	30.29	+4	69.12	− 5	40.26	+17	26.73	− 4
19	30.27	− 8	20.60	−11	30.36	+2	68.75	− 8	40.39	+14	26.35	− 7
20	32.07	−29	20.44	− 9	30.43	0	68.40	−11	40.53	+ 7	25.96	−10
21	33.88	−46	20.29	− 6	30.50	−3	68.03	−10	40.67	− 2	25.57	−11
22	35.69	−54	20.15	− 1	30.57	−5	67.66	− 9	40.82	−11	25.18	−10
23	37.50	−52	20.02	+ 3	30.64	−6	67.29	− 4	40.98	−18	24.80	− 6
24	39.33	−37	19.88	+ 7	30.72	−6	66.93	0	41.15	−21	24.42	− 1
25	41.16	−14	19.76	+ 9	30.80	−4	66.56	+ 4	41.33	−18	24.03	+ 4
26	43.00	+12	19.63	+ 9	30.88	−2	66.21	+ 8	41.52	−12	23.65	+ 7
27	44.84	+36	19.51	+ 7	30.96	+1	65.85	+11	41.72	− 2	23.27	+ 9
28	46.68	+52	19.40	+ 4	31.05	+4	65.49	+ 9	41.93	+ 8	22.89	+10
29	48.53	+56	19.29	− 1	31.14	+6	65.14	+ 6	42.14	+16	22.52	+ 8
30	50.39	+49	19.18	− 5	31.23	+6	64.79	+ 2	42.36	+21	22.15	+ 4
31	52.25	+33	19.08	− 8	31.32	+6	64.45	− 2	42.59	+21	21.77	0
April 1	54.12	+11	18.98	− 9	31.41	+4	64.11	− 5	42.83	+16	21.41	− 3
2	55.98	−10	18.90	− 8	31.50	+1	63.76	− 7	43.08	+ 9	21.04	− 6
3	57.85	−27	18.81	− 5	31.60	−1	63.43	− 7	43.33	0	20.67	− 7
4	59.72	−37	18.73	− 2	31.70	−3	63.09	− 6	43.60	− 8	20.30	− 6
5	61.59	−37	18.65	+ 2	31.80	−4	62.77	− 3	43.87	−14	19.94	− 4
6	63.47	−31	18.59	+ 6	31.90	−5	62.43	0	44.15	−17	19.58	− 2
7	65.34	−20	18.52	+ 8	32.01	−4	62.11	+ 3	44.44	−17	19.23	+ 1
8	67.22	− 5	18.46	+ 9	32.11	−3	61.78	+ 6	44.73	−14	18.87	+ 4
9	69.09	+11	18.40	+ 8	32.22	−1	61.45	+ 8	45.03	− 9	18.51	+ 6
10	70.97	+24	18.35	+ 5	32.33	+1	61.13	+ 8	45.34	− 3	18.17	+ 7
11	72.84	+32	18.30	+ 2	32.44	+2	60.80	+ 6	45.66	+ 5	17.83	+ 6
12	74.72	+35	18.26	− 2	32.56	+4	60.49	+ 4	45.99	+12	17.48	+ 4
13	76.59	+30	18.22	− 6	32.67	+4	60.18	+ 1	46.32	+16	17.14	+ 1
14	78.46	+17	18.18	− 9	32.79	+4	59.88	− 4	46.66	+17	16.81	− 3
15	80.32	− 1	18.16	−10	32.90	+3	59.58	− 7	47.01	+15	16.47	− 7
16	82.19	−22	18.14	−10	33.02	+1	59.28	−10	47.37	+ 9	16.14	−10
17	84.05	−40	18.12	− 7	33.15	−2	58.98	−11	47.73	+ 1	15.82	−11
18	85.91	−52	18.11	− 3	33.27	−4	58.69	− 9	48.10	− 7	15.49	−10
19	87.77	−53	18.10	0	33.39	−5	58.40	− 6	48.47	−15	15.16	− 7
20	89.62	−42	18.09	+ 5	33.52	−6	58.12	− 1	48.86	−20	14.83	− 2
21	91.47	−22	18.09	+ 8	33.64	−5	57.84	+ 4	49.25	−20	14.52	+ 2
sec δ, tg δ	89° 13′ 10″ 20	73.406 73.668	−73.399 −73.661		7.03		−6.95		87° 56′ 20″ 30	27.804 27.842	−27.786 −27.824	

1916	Octantis 4 G. 6^m				ζ Octantis $6^m - 5^m$				ι Octantis $6^m - 5^m$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in ^{s} 0.01	−85° 11′	in ″ 0.01	$9^h 8^m$	in ^{s} 0.01	−85° 20′	in ″ 0.01	$12^h 46^m$	in ^{s} 0.01	−84° 40′	in ″ 0.01
April 21	53.03	−8	24.45	−4	62.93	+7	6.45	−5	13.75	+8	22.88	+4
22	53.02	−8	24.08	+1	62.66	+5	6.60	−9	13.71	+8	23.24	−1
23	53.02	−6	23.70	+6	62.39	+2	6.74	−11	13.66	+7	23.60	−5
24	53.03	−2	23.32	+10	62.12	−2	6.88	−11	13.61	+5	23.96	−9
25	53.04	+1	22.95	+11	61.84	−5	7.01	−7	13.56	+2	24.31	−12
26	53.05	+5	22.57	+10	61.57	−8	7.14	−3	13.50	−2	24.66	−10
27	53.07	+7	22.19	+7	61.29	−8	7.27	+2	13.44	−5	25.01	−7
28	53.09	+8	21.82	+3	61.01	−7	7.39	+6	13.37	−7	25.36	−3
29	53.11	+6	21.44	0	60.74	−5	7.50	+8	13.31	−7	25.70	+1
30	53.14	+4	21.06	−4	60.46	−2	7.61	+8	13.23	−6	26.04	+4
Mai 1	53.17	+1	20.70	−6	60.18	+2	7.71	+7	13.16	−3	26.38	+7
2	53.21	−3	20.33	−8	59.90	+4	7.81	+4	13.08	0	26.70	+7
3	53.25	−5	19.96	−7	59.63	+6	7.90	0	13.00	+3	27.04	+6
4	53.29	−7	19.61	−5	59.35	+6	7.99	−3	12.92	+5	27.37	+4
5	53.34	−7	19.24	−2	59.07	+6	8.07	−7	12.83	+7	27.69	+1
6	53.39	−6	18.87	0	58.79	+4	8.15	−9	12.74	+7	28.01	−2
7	53.45	−4	18.51	+4	58.51	+2	8.22	−8	12.65	+6	28.33	−4
8	53.51	−1	18.15	+6	58.23	−1	8.29	−6	12.56	+4	28.65	−6
9	53.58	+2	17.79	+8	57.95	−3	8.35	−5	12.46	+1	28.97	−6
10	53.65	+5	17.43	+6	57.67	−5	8.39	0	12.36	−2	29.29	−5
11	53.72	+7	17.07	+4	57.40	−6	8.44	+4	12.25	−5	29.60	−3
12	53.79	+8	16.73	+1	57.12	−5	8.48	+8	12.15	−7	29.90	0
13	53.87	+8	16.38	−3	56.84	−4	8.51	+11	12.04	−8	30.19	+4
14	53.96	+7	16.03	−7	56.56	−1	8.55	+11	11.92	−7	30.49	+8
15	54.05	+5	15.68	−10	56.29	+2	8.57	+10	11.81	−5	30.77	+11
16	54.14	+2	15.34	−11	56.01	+5	8.60	+7	11.69	−2	31.07	+10
17	54.23	−2	15.01	−9	55.73	+7	8.61	+2	11.57	+2	31.35	+9
18	54.33	−6	14.67	−5	55.46	+8	8.62	−3	11.45	+6	31.64	+6
19	54.43	−8	14.33	0	55.19	+6	8.63	−7	11.32	+8	31.91	+1
20	54.54	−7	13.99	+4	54.91	+3	8.63	−11	11.19	+8	32.18	−3
21	54.65	−4	13.66	+9	54.64	0	8.63	−11	11.06	+6	32.45	−9
22	54.76	0	13.35	+11	54.37	−4	8.62	−9	10.93	+3	32.72	−11
23	54.88	+4	13.02	+11	54.10	−7	8.61	−5	10.79	0	32.98	−11
24	55.00	+6	12.70	+10	53.83	−9	8.60	0	10.65	−4	33.24	−10
25	55.12	+7	12.38	+6	53.56	−8	8.57	+5	10.51	−6	33.49	−6
26	55.25	+7	12.08	+1	53.29	−6	8.54	+7	10.37	−7	33.74	−2
27	55.38	+5	11.76	−3	53.03	−3	8.50	+7	10.22	−6	33.98	+4
28	55.52	+2	11.46	−6	52.76	0	8.46	+7	10.07	−4	34.23	+6
sec δ, tg δ	11.92		−11.88		12.30		−12.26		10.77		−10.73	

1916	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 46^m$	in s 0.01	−87° 48′	in ″ 0.01	$16^h 29^m$	in s 0.01	−86° 12′	in ″ 0.01	$18^h 6^m$	in s 0.01	−87° 39′	in ″ 0.01
April 21	25.37	+12	44.93	+ 8	45.37	+ 3	49.56	+11	13.83	− 2	41.42	+10
22	25.58	+18	45.29	+ 4	45.64	+ 8	49.82	+ 8	14.41	+ 7	41.56	+ 9
23	25.79	+20	45.64	− 1	45.91	+12	50.08	+ 4	14.98	+15	41.70	+ 6
24	25.99	+17	46.00	− 6	46.17	+13	50.35	− 2	15.55	+19	41.84	+ 2
25	26.18	+11	46.35	−10	46.43	+11	50.62	− 6	16.11	+20	41.98	− 4
26	26.36	+ 3	46.71	−12	46.69	+ 7	50.89	−10	16.67	+16	42.13	− 8
27	26.54	− 6	47.06	−11	46.94	+ 2	51.17	−11	17.22	+ 9	42.28	−10
28	26.70	−12	47.42	− 6	47.18	− 3	51.45	−11	17.77	+ 2	42.44	−10
29	26.86	−15	47.77	− 4	47.43	− 7	51.72	− 8	18.32	− 6	42.60	− 9
30	27.01	−14	48.13	+ 1	47.67	− 8	52.00	− 3	18.86	−11	42.76	− 5
Mai 1	27.14	−10	48.48	+ 4	47.90	− 8	52.28	+ 2	19.39	−13	42.93	− 1
2	27.27	− 4	48.84	+ 7	48.13	− 6	52.57	+ 6	19.92	−12	43.11	+ 4
3	27.39	+ 3	49.20	+ 9	48.35	− 2	52.86	+ 8	20.44	− 9	43.29	+ 7
4	27.50	+ 9	49.56	+ 8	48.57	+ 1	53.14	+ 9	20.96	− 4	43.47	+ 9
5	27.60	+13	49.91	+ 5	48.78	+ 5	53.44	+ 9	21.47	+ 2	43.65	+ 9
6	27.70	+15	50.26	+ 2	48.99	+ 7	53.73	+ 7	21.98	+ 7	43.85	+ 8
7	27.78	+15	50.61	0	49.20	+ 8	54.02	+ 3	22.48	+10	44.04	+ 6
8	27.86	+11	50.97	− 4	49.40	+ 8	54.32	− 1	22.97	+12	44.24	+ 2
9	27.92	+ 6	51.31	− 6	49.59	+ 6	54.62	− 4	23.46	+11	44.44	− 2
10	27.98	− 2	51.67	− 7	49.78	+ 2	54.91	− 7	23.94	+ 8	44.64	− 6
11	28.03	− 9	52.02	− 7	49.97	− 2	55.22	− 9	24.41	+ 2	44.85	− 9
12	28.07	−16	52.37	− 4	50.15	− 7	55.52	− 8	24.88	− 5	45.06	−10
13	28.10	−20	52.72	− 1	50.32	−10	55.82	− 6	25.35	−12	45.27	− 9
14	28.12	−21	53.07	+ 3	50.50	−13	56.12	− 2	25.80	−17	45.49	− 6
15	28.13	−17	53.41	+ 7	50.66	−13	56.43	+ 2	26.25	−20	45.71	− 2
16	28.13	−11	53.75	+10	50.82	−10	56.75	+ 7	26.69	−19	45.94	+ 3
17	28.13	− 2	54.10	+11	50.97	− 6	57.06	+10	27.13	−14	46.16	+ 7
18	28.11	+ 8	54.45	+10	51.12	0	57.37	+10	27.55	− 6	46.39	+10
19	28.09	+16	54.78	+ 6	51.27	+ 6	57.68	+ 9	27.98	+ 4	46.63	+10
20	28.05	+20	55.12	0	51.40	+11	57.99	+ 5	28.39	+12	46.86	+ 8
21	28.01	+19	55.46	− 5	51.54	+13	58.31	0	28.80	+18	47.09	+ 4
22	27.96	+14	55.79	−10	51.67	+12	58.63	− 5	29.20	+21	47.33	− 1
23	27.90	+ 7	56.12	−12	51.79	+ 9	58.94	− 9	29.59	+19	47.58	− 6
24	27.84	− 2	56.45	−12	51.91	+ 4	59.26	−11	29.98	+13	47.82	− 9
25	27.76	− 9	56.78	− 9	52.02	− 1	59.57	−11	30.35	+ 6	48.08	−11
26	27.67	−14	57.11	− 5	52.13	− 5	59.89	− 9	30.72	− 2	48.33	− 9
27	27.58	−14	57.44	− 1	52.23	− 7	60.20	− 4	31.09	− 8	48.60	− 6
28	27.48	−12	57.76	+ 4	52.33	− 8	60.52	0	31.44	−12	48.85	− 2
sec δ, tg δ	87° 48′ 50″ / 60	26.215 / 26.249	−26.196 / −26.230		15.15		−15.12		87° 39′ 40″ / 50	24.504 / 24.533	−24.483 / −24.513	

1916	σ Octantis 6m				β Octantis 4m.1				τ Octantis 6m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19h 27m	in s 0.01	−89° 13′	in ″ 0.01	22h 37m	in s 0.01	−81° 48′	in ″ 0.01	23h 15m	in s 0.01	−87° 56′	in ″ 0.01
April 21	31.47	−22	18.09	+ 8	33.64	− 5	57.84	+ 4	49.25	−20	14.52	+ 2
22	33.31	+ 4	18.10	+10	33.77	− 3	57.56	+ 9	49.64	−15	14.21	+ 7
23	35.15	+29	18.11	+ 9	33.90	0	57.28	+11	50.05	− 6	13.91	+10
24	36.98	+49	18.13	+ 5	34.04	+ 4	57.00	+11	50.46	+ 4	13.60	+11
25	38.81	+58	18.15	+ 1	34.17	+ 5	56.74	+ 8	50.88	+13	13.30	+10
26	40.63	+55	18.18	− 4	34.30	+ 6	56.48	+ 5	51.30	+19	13.00	+ 6
27	42.45	+41	18.21	− 7	34.44	+ 6	56.22	0	51.73	+21	12.71	+ 2
28	44.25	+21	18.25	− 9	34.58	+ 4	55.96	− 4	52.17	+19	12.41	− 3
39	46.05	− 2	18.28	− 8	34.71	+ 2	55.72	− 7	52.61	+12	12.12	− 6
30	47.85	−21	18.33	− 6	34.85	0	55.47	− 7	53.06	+ 3	11.84	− 7
Mai 1	49.63	−34	18.38	− 3	34.99	− 3	55.22	− 6	53.51	− 5	11.57	− 7
2	51.41	−38	18.42	+ 1	35.14	− 4	54.99	− 4	53.97	−12	11.29	− 5
3	53.18	−35	18.48	+ 5	35.28	− 5	54.76	− 2	54.43	−17	11.03	− 3
4	54.93	−25	18.55	+ 7	35.42	− 5	54.54	+ 2	54.90	−18	10.76	+ 1
5	56.68	−11	18.61	+ 9	35.57	− 3	54.31	+ 5	55.38	−16	10.50	+ 4
6	58.42	+ 5	18.68	+ 8	35.72	− 2	54.08	+ 6	55.86	−11	10.25	+ 6
7	60.15	+19	18.76	+ 6	35.86	0	53.86	+ 7	56.35	− 5	10.00	+ 7
8	61.87	+29	18.84	+ 3	36.01	+ 2	53.65	+ 6	56.84	+ 2	9.74	+ 7
9	63.57	+33	18.94	− 1	36.16	+ 3	53.45	+ 4	57.34	+ 9	9.49	+ 5
10	65.27	+31	19.04	− 4	36.31	+ 4	53.26	+ 1	57.84	+14	9.25	+ 2
11	66.95	+20	19.14	− 8	36.46	+ 4	53.06	− 3	58.35	+17	9.01	− 2
12	68.62	+ 4	19.24	−10	36.62	+ 3	52.86	− 6	58.86	+16	8.78	− 5
13	70.28	−17	19.35	−10	36.77	+ 1	52.67	−10	59.38	+12	8.55	− 9
14	71.93	−36	19.46	− 8	36.92	− 1	52.48	−11	59.90	+ 4	8.33	−10
15	73.56	−50	19.58	− 6	37.08	− 3	52.31	−11	60.42	− 5	8.11	−11
16	75.18	−55	19.70	− 1	37.23	− 5	52.14	− 8	60.95	−13	7.90	− 9
17	76.78	−49	19.82	+ 4	37.39	− 6	51.97	− 5	61.48	−19	7.70	− 5
18	78.37	−32	19.95	+ 8	37.55	− 5	51.81	+ 1	62.02	−20	7.50	0
19	79.95	− 7	20.08	+10	37.70	− 3	51.65	+ 7	62.56	−17	7.30	+ 6
20	81.51	+20	20.22	+ 9	37.86	− 1	51.50	+10	63.11	− 9	7.11	+10
21	83.06	+43	20.37	+ 6	38.02	+ 2	51.35	+12	63.65	0	6.93	+11
22	84.59	+58	20.52	+ 2	38.18	+ 5	51.20	+10	64.20	+10	6.75	+11
23	86.10	+60	20.67	− 2	38.34	+ 6	51.06	+ 7	64.76	+18	6.57	+ 8
24	87.60	+50	20.82	− 5	38.50	+ 6	50.92	+ 3	65.32	+21	6.39	+ 4
25	89.08	+32	20.97	− 8	38.66	+ 5	50.80	− 2	65.88	+20	6.22	0
26	90.54	+ 9	21.14	− 8	38.82	+ 3	50.68	− 5	66.44	+15	6.06	− 4
27	91.99	−12	21.30	− 8	38.98	+ 1	50.57	− 6	67.01	+ 7	5.91	− 5
28	93.42	−28	21.47	− 5	39.14	− 2	50.45	− 6	67.58	− 2	5.76	− 6
sec δ, tg δ	89° 13′ 10″	73.406	−73.399		7.02		−6.95		87° 56′ 10″	27.767	−27.749	
	20	73.668	−73.661						20	27.804	−27.786	

1916	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ – 5ᵐ				ι Octantis 6ᵐ – 5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in 0.01^s	−85° 11′	in 0.01″	$9^h 8^m$	in 0.01^s	−85° 20′	in 0.01″	$12^h 46^m$	in 0.01^s	−84° 40′	in 0.01″
Mai 28	55.52	+2	11.46	−6	52.76	0	8.46	+7	10.07	−4	34.23	+6
29	55.66	−2	11.15	−8	52.50	+3	8.42	+4	9.92	−1	34.47	+6
30	55.80	−4	10.86	−8	52.24	+6	8.37	+1	9.77	+2	34.71	+6
31	55.94	−6	10.57	−6	51.98	+6	8.31	−3	9.61	+5	34.95	+6
Juni 1	56.09	−7	10.28	−3	51.72	+6	8.25	−6	9.46	+7	35.18	+3
2	56.24	−7	9.99	0	51.46	+5	8.18	−8	9.30	+7	35.40	0
3	56.40	−5	9.70	+3	51.21	+3	8.11	−8	9.13	+6	35.61	−3
4	56.56	−3	9.42	+6	50.95	0	8.03	−8	8.97	+5	35.83	−6
5	56.72	+1	9.14	+6	50.70	−2	7.95	−5	8.81	+2	36.04	−6
6	56.88	+3	8.87	+7	50.45	−4	7.86	−2	8.64	−1	36.24	−6
7	57.05	+6	8.59	+4	50.20	−6	7.76	+2	8.47	−4	36.43	−3
8	57.22	+8	8.32	+2	49.96	−6	7.67	+6	8.30	−7	36.61	−1
9	57.39	+8	8.06	−3	49.71	−4	7.56	+9	8.12	−8	36.79	+2
10	57.57	+6	7.80	−6	49.47	−2	7.46	+11	7.95	−8	36.97	+8
11	57.75	+4	7.54	−9	49.23	+1	7.36	+11	7.77	−6	37.14	+10
12	57.93	0	7.29	−11	49.00	+5	7.24	+10	7.59	−3	37.31	+11
13	58.11	−4	7.04	−11	48.76	+7	7.12	+5	7.41	0	37.47	+11
14	58.30	−6	6.80	−8	48.53	+8	7.00	0	7.23	+4	37.63	+9
15	58.49	−8	6.57	−3	48.30	+7	6.87	−4	7.05	+7	37.78	+4
16	58.68	−7	6.34	+2	48.07	+5	6.74	−9	6.86	+8	37.93	−2
17	58.87	−5	6.11	+7	47.84	+1	6.59	−10	6.67	+7	38.07	−7
18	59.07	−2	5.89	+11	47.62	−3	6.44	−10	6.49	+5	38.21	−11
19	59.27	+2	5.67	+12	47.40	−6	6.28	−7	6.30	+1	38.35	−12
20	59.47	+5	5.45	+12	47.18	−8	6.12	−1	6.11	−3	38.48	−10
21	59.68	+7	5.25	+8	46.97	−9	5.97	+2	5.92	−5	38.61	−6
22	59.88	+7	5.04	+4	46.76	−7	5.80	+6	5.72	−7	38.73	−2
23	60.09	+5	4.84	−1	46.55	−5	5.63	+7	5.53	−7	38.84	0
24	60.31	+3	4.66	−4	46.34	−1	5.45	+7	5.33	−5	38.94	+4
25	60.52	−1	4.47	−7	46.14	+2	5.27	+5	5.14	−2	39.04	+6
26	60.73	−4	4.29	−7	45.94	+5	5.08	+2	4.94	+1	39.14	+6
27	60.95	−6	4.11	−5	45.74	+6	4.89	−2	4.74	+4	39.23	+5
28	61.17	−7	3.93	−3	45.55	+6	4.70	−5	4.54	+6	39.31	+1
29	61.40	−7	3.76	−1	45.36	+5	4.51	−7	4.34	+7	39.40	−2
30	61.62	−6	3.60	+2	45.17	+3	4.31	−8	4.14	+7	39.47	−4
Juli 1	61.84	−4	3.43	+4	44.98	+1	4.11	−7	3.94	+5	39.54	−5
2	62.07	−1	3.27	+6	44.80	−2	3.90	−4	3.74	+3	39.60	−7
3	62.30	+2	3.13	+7	44.63	−4	3.70	−1	3.53	0	39.65	−7
4	62.53	+5	2.99	+6	44.45	−5	3.48	+4	3.33	−3	39.70	−6
sec δ, tg δ	11.91		−11.87		12.30		−12.26		10.78		−10.73	

1916	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 46^m$	in ^{s} 0.01	−87° 48′	in ″ 0.01	$16^h 29^m$	in ^{s} 0.01	−86° 13′	in ″ 0.01	$18^h 6^m$	in ^{s} 0.01	−87° 39′	in ″ 0.01
Mai 28	27.48	−12	57.76	+ 4	52.33	− 8	0.52	0	31.44	−12	48.85	− 2
29	27.36	− 6	58.08	+ 7	52.42	− 6	0.83	+ 5	31.79	−12	49.11	+ 2
30	27.24	+ 1	58.40	+ 8	52.50	− 3	1.14	+ 8	32.13	−10	49.37	+ 6
31	27.11	+ 7	58.72	+ 8	52.58	0	1.46	+ 9	32.46	− 5	49.63	+ 9
Juni 1	26.97	+12	59.04	+ 6	52.66	+ 4	1.78	+ 9	32.78	0	49.90	+10
2	26.83	+15	59.36	+ 4	52.73	+ 7	2.10	+ 7	33.09	+ 5	50.17	+ 9
3	26.67	+15	59.66	0	52.79	+ 8	2.42	+ 4	33.40	+ 9	50.44	+ 6
4	26.51	+13	59.97	− 3	52.84	+ 8	2.73	0	33.70	+12	50.72	+ 3
5	26.34	+ 8	60.28	− 6	52.90	+ 7	3.05	− 3	33.99	+12	51.00	− 1
6	26.16	+ 1	60.58	− 7	52.95	+ 4	3.37	− 6	34.27	+ 9	51.27	− 5
7	25.97	− 6	60.88	− 7	52.99	0	3.68	− 8	34.54	+ 4	51.55	− 8
8	25.77	−14	61.18	− 5	53.02	− 5	3.99	− 8	34.81	− 2	51.83	−10
9	25.56	−19	61.48	− 2	53.05	−10	4.31	− 7	35.06	−10	52.11	− 9
10	25.35	−21	61.77	+ 2	53.08	−13	4.62	− 4	35.31	−16	52.40	− 7
11	25.13	−20	62.06	+ 6	53.10	−14	4.93	+ 1	35.55	−20	52.69	− 4
12	24.90	−15	62.34	+10	53.11	−12	5.24	+ 5	35.78	−21	52.97	+ 1
13	24.66	− 6	62.62	+11	53.12	− 9	5.55	+ 9	36.00	−18	53.26	+ 6
14	24.41	+ 3	62.90	+10	53.12	− 3	5.86	+10	36.21	−11	53.55	+ 9
15	24.16	+12	63.18	+ 9	53.12	+ 3	6.16	+10	36.41	− 2	53.84	+10
16	23.89	+18	63.45	+ 4	53.11	+ 8	6.47	+ 6	36.60	+ 8	54.13	+ 9
17	23.63	+19	63.72	− 2	53.10	+12	6.78	+ 2	36.79	+16	54.41	+ 6
18	23.35	+17	63.99	− 6	53.08	+13	7.08	− 3	36.96	+20	54.71	+ 1
19	23.06	+10	64.25	−11	53.05	+11	7.39	− 8	37.13	+20	55.01	− 4
20	22.77	+ 1	64.51	−12	53.02	+ 7	7.69	−11	37.29	+16	55.30	− 8
21	22.48	− 6	64.76	−12	52.99	+ 2	7.99	−11	37.43	+10	55.60	−10
22	22.17	−12	65.01	− 9	52.94	− 3	8.29	− 9	37.57	+ 2	55.90	−10
23	21.85	−14	65.26	− 4	52.90	− 6	8.59	− 6	37.70	− 5	56.20	− 8
24	21.53	−12	65.50	+ 1	52.84	− 7	8.88	− 1	37.82	−10	56.50	− 4
25	21.21	− 8	65.73	+ 5	52.78	− 7	9.18	+ 3	37.93	−11	56.80	+ 1
26	20.87	− 1	65.97	+ 7	52.72	− 4	9.47	+ 7	38.03	−10	57.10	+ 5
27	20.53	+ 5	66.20	+ 7	52.65	− 1	9.76	+ 8	38.12	− 6	57.41	+ 8
28	20.18	+11	66.42	+ 6	52.58	+ 3	10.05	+ 9	38.21	− 1	57.71	+ 9
29	19.82	+15	66.64	+ 4	52.50	+ 6	10.33	+ 7	38.28	+ 4	58.01	+ 9
30	19.46	+16	66.86	+ 1	52.42	+ 8	10.62	+ 5	38.34	+ 9	58.30	+ 7
Juli 1	19.09	+15	67.08	− 2	52.33	+ 9	10.89	+ 1	38.40	+12	58.61	+ 4
2	18.72	+11	67.29	− 5	52.23	+ 8	11.16	− 3	38.44	+13	58.91	0
3	18.34	+ 4	67.49	− 7	52.13	+ 5	11.43	− 5	38.48	+11	59.21	− 4
4	17.95	− 3	67.70	− 8	52.02	+ 2	11.71	− 7	38.51	+ 7	59.51	− 7
sec δ, tg δ	87° 48′ 60″ 70	26.249 26.282	−26.230 −26.263		15.16		−15.13		87° 39′ 50″ 60	24.533 24.562	−24.513 −24.542	

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1916	σ Octantis 6^m				β Octantis 4^m.1				τ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 28^m$	in ^{s} 0.01	−89° 13′	in ″ 0.01	$22^h 37^m$	in ^{s} 0.01	−81° 48′	in ″ 0.01	$23^h 16^m$	in ^{s} 0.01	−87° 56′	in ″ 0.01
Mai 28	33.42	−28	21.47	−5	39.14	−2	50.45	−6	7.58	−2	5.76	−6
29	34.84	−36	21.65	−1	39.30	−4	50.34	−4	8.15	−10	5.61	−6
30	36.23	−36	21.83	+3	39.47	−5	50.24	−2	8.73	−15	5.47	−3
31	37.61	−28	22.02	+7	39.63	−5	50.15	+1	9.30	−18	5.34	0
Juni 1	38.97	−15	22.21	+9	39.79	−4	50.05	+4	9.88	−17	5.21	+3
2	40.31	0	22.40	+9	39.95	−3	49.96	+7	10.46	−13	5.09	+5
3	41.63	+15	22.58	+8	40.12	−1	49.88	+7	11.05	−8	4.98	+6
4	42.92	+26	22.78	+6	40.28	+1	49.81	+7	11.63	−1	4.87	+7
5	44.20	+33	22.99	+2	40.44	+3	49.74	+5	12.22	+7	4.76	+5
6	45.46	+32	23.19	−2	40.60	+4	49.68	+2	12.81	+13	4.65	+3
7	46.70	+24	23.40	−6	40.77	+4	49.62	−2	13.40	+16	4.55	0
8	47.92	+9	23.60	−9	40.93	+4	49.56	−5	13.99	+16	4.46	−4
9	49.11	−10	23.82	−11	41.09	+2	49.51	−9	14.58	+13	4.38	−8
10	50.29	−31	24.04	−9	41.25	0	49.47	−11	15.17	+7	4.29	−10
11	51.44	−48	24.26	−7	41.41	−3	49.43	−12	15.76	−1	4.22	−12
12	52.57	−58	24.48	−3	41.57	−5	49.39	−10	16.35	−10	4.15	−11
13	53.67	−56	24.71	+2	41.73	−6	49.36	−6	16.94	−17	4.09	−8
14	54.76	−43	24.94	+6	41.89	−6	49.35	−2	17.54	−20	4.03	−3
15	55.82	−20	25.18	+9	42.05	−4	49.34	+4	18.13	−19	3.98	+2
16	56.86	+7	25.41	+10	42.21	−2	49.33	+7	18.72	−13	3.92	+7
17	57.87	+33	25.65	+8	42.37	+1	49.32	+10	19.31	−4	3.88	+10
18	58.86	+53	25.89	+5	42.53	+4	49.32	+11	19.91	+6	3.84	+11
19	59.83	+61	26.14	0	42.69	+6	49.33	+8	20.50	+15	3.82	+9
20	60.78	+57	26.38	−4	42.85	+6	49.34	+4	21.09	+20	3.80	+6
21	61.70	+42	26.63	−7	43.00	+6	49.35	0	21.68	+21	3.78	+2
22	62.59	+21	26.89	−9	43.16	+4	49.37	−4	22.27	+18	3.76	−2
23	63.46	−2	27.16	−8	43.31	+2	49.41	−6	22.85	+11	3.76	−4
24	64.31	−21	27.41	−5	43.47	−1	49.45	−6	23.44	+2	3.75	−6
25	65.13	−32	27.67	−1	43.62	−3	49.48	−6	24.03	−6	3.75	−6
26	65.92	−35	27.93	+2	43.77	−4	49.53	−4	24.61	−13	3.75	−3
27	66.69	−30	28.20	+5	43.93	−5	49.58	−1	25.19	−17	3.76	0
28	67.43	−19	28.46	+8	44.08	−4	49.63	+3	25.77	−17	3.77	+3
29	68.15	−4	28.73	+9	44.23	−3	49.69	+5	26.35	−15	3.80	+5
30	68.84	+11	29.01	+8	44.38	−1	49.75	+8	26.92	−9	3.83	+6
Juli 1	69.50	+24	29.29	+6	44.53	+1	49.82	+7	27.50	−3	3.86	+8
2	70.14	+33	29.56	+3	44.67	+2	49.90	+6	28.07	+4	3.90	+7
3	70.75	+35	29.84	−1	44.82	+4	49.98	+5	28.64	+11	3.95	+4
4	71.33	+29	30.12	−5	44.96	+4	50.07	0	29.20	+15	4.00	+1
sec δ, tg δ	89° 13′ 20″	73.668	−73.661		7.02		−6.95		87° 56′ 0″	27.730	−27.712	
	30	73.932	−73.926						10	27.767	−27.749	

1916	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ–5ᵐ				ι Octantis 6ᵐ–5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$ s	in s 0.01	–85° 11′ ″	in ″ 0.01	$9^h 8^m$ s	in s 0.01	–85° 19′ ″	in ″ 0.01	$12^h 45^m$ s	in s 0.01	–84° 40′ ″	in ″ 0.01
Juli 4	2.53	+5	2.99	+6	44.45	–5	63.48	+4	63.33	–3	39.70	–6
5	2.76	+7	2.85	+3	44.28	–6	63.26	+6	63.13	–6	39.75	–3
6	2.99	+8	2.72	–1	44.12	–5	63.04	+10	62.92	–8	39.79	+1
7	3.22	+7	2.59	–5	43.95	–3	62.82	+11	62.72	–8	39.82	+5
8	3.46	+5	2.48	–9	43.79	0	62.59	+11	62.51	–7	39.85	+9
9	3.70	+2	2.36	–11	43.64	+4	62.35	+10	62.31	–5	39.88	+12
10	3.93	–2	2.25	–12	43.49	+6	62.12	+6	62.11	–1	39.89	+13
11	4.17	–5	2.15	–10	43.34	+8	61.87	+1	61.90	+2	39.90	+11
12	4.41	–7	2.05	–6	43.19	+8	61.64	–4	61.70	+6	39.90	+6
13	4.65	–7	1.97	–1	43.05	+6	61.39	–8	61.49	+8	39.90	+1
14	4.89	–6	1.89	+4	42.91	+3	61.14	–10	61.28	+7	39.89	–5
15	5.14	–3	1.81	+9	42.78	–1	60.89	–10	61.08	+6	39.89	–10
16	5.38	+1	1.73	+11	42.65	–5	60.64	–7	60.88	+2	39.87	–13
17	5.62	+4	1.66	+12	42.53	–7	60.38	–4	60.67	–1	39.85	–11
18	5.86	+6	1.61	+9	42.41	–9	60.11	0	60.47	–4	39.81	–9
19	6.11	+7	1.56	+5	42.29	–8	59.85	+4	60.26	–7	39.78	–5
20	6.35	+6	1.51	+1	42.18	–6	59.59	+7	60.06	–7	39.74	–1
21	6.60	+4	1.47	–3	42.07	–3	59.31	+7	59.86	–6	39.69	+4
22	6.84	+1	1.42	–5	41.97	+1	59.04	+5	59.66	–3	39.63	+6
23	7.09	–3	1.39	–7	41.87	+4	58.77	+3	59.46	0	39.58	+6
24	7.33	–5	1.37	–6	41.77	+6	58.50	–2	59.26	+3	39.51	+4
25	7.58	–7	1.35	–4	41.68	+6	58.21	–4	59.06	+6	39.44	+4
26	7.83	–7	1.33	–1	41.59	+5	57.93	–7	58.86	+7	39.37	+1
27	8.07	–6	1.32	+2	41.51	+4	57.65	–9	58.66	+7	39.29	–2
28	8.32	–5	1.32	+5	41.43	+2	57.36	–9	58.47	+6	39.21	–5
29	8.56	–2	1.32	+6	41.36	–1	57.07	–7	58.27	+4	39.11	–7
30	8.81	+1	1.33	+7	41.29	–3	56.78	–4	58.08	+1	39.01	–8
31	9.05	+4	1.35	+7	41.22	–5	56.49	–1	57.88	–2	38.91	–7
Aug. 1	9.29	+6	1.38	+5	41.16	–6	56.20	+4	57.69	–5	38.81	–5
2	9.54	+7	1.41	+1	41.11	–6	55.91	+7	57.50	–7	38.70	–1
3	9.78	+7	1.44	–3	41.06	–4	55.62	+11	57.31	–8	38.58	+3
4	10.02	+6	1.48	–7	41.01	–1	55.32	+11	57.12	–8	38.45	+8
5	10.26	+3	1.52	–10	40.97	+2	55.02	+11	56.94	–6	38.32	+12
6	10.50	–1	1.57	–11	40.93	+5	54.72	+9	56.75	–3	38.19	+12
7	10.74	–4	1.63	–12	40.90	+8	54.42	+4	56.57	+1	38.05	+11
8	10.98	–6	1.69	–8	{40.87 40.85	+9 +8	54.11 53.81	–1 –5	56.39	+5	37.90	+8
9	11.21	–7	1.75	–3	40.83	+5	53.51	–8	56.21	+6	37.75	+4
10	11.45	–7	1.83	+1	40.82	+1	53.20	–9	56.04	+7	37.61	–2
sec δ, tg δ	11.91		–11.87		12.29		–12.25		10.78		–10.73	

Scheinbare Sternörter 1916

1916	Octantis 20 G. 7ᵐ				Octantis 26 G. 6ᵐ – 7ᵐ				χ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	14ʰ 46ᵐ s	in s 0.01	−87° 49′ ″	in ″ 0.01	16ʰ 29ᵐ s	in s 0.01	−86° 13′ ″	in ″ 0.01	18ʰ 6ᵐ s	in s 0.01	−87° 39′ ″	in ″ 0.01
Juli 4	17.95	− 3	7.70	− 8	52.02	+ 2	11.71	− 7	38.51	+ 7	59.51	− 7
5	17.56	−11	7.89	− 6	51.91	− 3	11.98	− 8	38.52	+ 1	59.81	− 9
6	17.16	−17	8.08	− 4	51.79	− 8	12.24	− 7	38.53	− 7	60.10	−10
7	16.76	−21	8.26	0	51.67	−12	12.50	− 4	38.53	−14	60.40	− 8
8	16.35	−21	8.45	+ 4	51.55	−14	12.76	− 1	38.52	−19	60.70	− 5
9	15.93	−18	8.62	+ 8	51.42	−14	13.03	+ 3	38.50	−22	61.01	0
10	15.51	−11	8.79	+11	51.28	−11	13.29	+ 7	38.47	−20	61.30	+ 4
11	15.09	− 2	8.95	+11	51.14	− 6	13.55	+11	38.43	−15	61.58	+ 8
12	14.65	+ 8	9.10	+10	50.99	0	13.81	+11	38.38	− 7	61.88	+10
13	14.22	+15	9.26	+ 6	50.84	+ 5	14.05	+ 9	38.33	+ 3	62.17	+10
14	13.78	+18	9.40	+ 1	50.69	+10	14.30	+ 5	38.26	+11	62.46	+ 7
15	13.33	+17	9.54	− 5	50.53	+12	14.53	+ 1	38.18	+18	62.74	+ 3
16	12.88	+13	9.67	− 9	50.36	+11	14.76	− 5	38.10	+20	63.03	− 3
17	12.43	+ 5	9.80	−12	50.19	+ 8	15.00	−11	38.00	+17	63.32	− 7
18	11.97	− 3	9.93	−12	50.02	+ 4	15.23	−11	37.89	+12	63.60	−10
19	11.51	−10	10.05	−10	49.84	− 1	15.46	−12	37.78	+ 5	63.88	−10
20	11.04	−13	10.17	− 6	49.65	− 5	15.67	− 8	37.65	− 2	64.17	− 9
21	10.57	−13	10.28	− 1	49.47	− 7	15.88	− 4	37.52	− 8	64.45	− 5
22	10.10	−10	10.39	+ 3	49.28	− 7	16.10	+ 1	37.38	−10	64.73	0
23	9.62	− 3	10.50	+ 7	49.08	− 5	16.31	+ 6	37.23	−10	65.01	+ 4
24	9.14	+ 4	10.59	+ 8	48.88	− 2	16.51	+ 8	37.07	− 7	65.28	+ 7
25	8.66	+10	10.68	+ 8	48.67	+ 2	16.71	+ 8	36.90	− 2	65.55	+ 9
26	8.17	+15	10.76	+ 5	48.46	+ 6	16.90	+ 9	36.72	+ 3	65.81	+ 9
27	7.68	+17	10.85	+ 2	48.25	+ 8	17.09	+ 6	36.54	+ 8	66.08	+ 8
28	7.19	+16	10.92	− 1	48.03	+ 9	17.27	+ 3	36.34	+12	66.34	+ 5
29	6.69	+13	11.00	− 4	47.81	+ 9	17.45	− 1	36.14	+13	66.60	+ 2
30	6.19	+ 8	11.06	− 7	47.59	+ 7	17.64	− 4	35.93	+13	66.86	− 2
31	5.69	0	11.11	− 8	47.36	+ 4	17.81	− 6	35.71	+ 9	67.12	− 6
Aug. 1	5.19	− 7	11.15	− 7	47.13	− 1	17.98	− 9	35.48	+ 4	67.38	− 9
2	4.69	−14	11.20	− 5	46.89	− 5	18.14	− 8	35.24	− 3	67.63	−10
3	4.18	−19	11.24	− 2	46.65	−10	18.30	− 7	34.99	−10	67.88	− 9
4	3.68	−21	11.27	+ 2	46.41	−13	18.45	− 3	34.74	−17	68.12	− 6
5	3.17	−19	11.30	+ 7	46.17	−14	18.60	+ 2	34.48	−21	68.36	− 2
6	2.66	−14	11.33	+11	45.92	−12	18.74	+ 6	34.21	−21	68.60	+ 3
7	2.15	− 5	11.34	+12	45.67	− 8	18.88	+10	33.93	−18	68.84	+ 7
8	1.64	+ 4	11.35	+10	45.41	− 3	19.01	+12	33.65	−11	69.08	+10
9	1.13	+12	11.36	+ 8	45.15	+ 3	19.14	+10	33.35	− 2	69.31	+10
10	0.61	+16	11.35	+ 3	44.89	+ 8	19.28	+ 7	33.05	+ 7	69.53	+ 9
sec δ, tg δ	87° 49′ 0″ 10	26.249 26.282	−26.230 −26.263		15.17		−15.14		87° 39′ 60″ 70	24.562 24.591	−24.542 −24.571	

1916	σ Octantis 6^m				β Octantis $4^m.1$				τ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 29^m$	in ^{s} 0.01	−89° 13′	in ″ 0.01	$22^h 37^m$	in ^{s} 0.01	−81° 48′	in ″ 0.01	$23^h 16^m$	in ^{s} 0.01	−87° 56′	in ″ 0.01
Juli 4	^{s} 11.33	+29	″ 30.12	− 5	^{s} 44.96	+ 4	″ 50.07	0	^{s} 29.20	+15	″ 4.00	+ 1
5	11.89	+16	30.41	− 8	45.11	+ 4	50.16	− 4	29.76	+17	4.04	− 3
6	12.42	− 2	30.68	− 9	45.25	+ 3	50.25	− 8	30.32	+15	4.10	− 7
7	12.92	−23	30.96	−10	45.39	+ 1	50.36	−12	30.87	+10	4.17	−10
8	13.39	−43	31.24	− 8	45.53	− 2	50.47	−12	31.42	+ 2	4.25	−12
9	13.84	−57	31.53	− 5	45.66	− 4	50.59	−10	31.97	− 7	4.34	−12
10	14.26	−61	31.83	0	45.80	− 6	50.70	− 7	32.51	−15	4.43	−10
11	14.65	−53	32.12	+ 4	45.94	− 6	50.82	− 4	33.05	−20	4.53	− 5
12	15.01	−34	32.42	+ 8	46.07	− 5	50.95	+ 2	33.58	−20	4.63	0
13	15.34	− 8	32.71	+10	46.20	− 3	51.09	+ 6	34.11	−16	4.73	+ 5
14	15.65	+19	33.01	+ 8	46.33	− 1	51.23	+ 9	34.64	− 8	4.84	+ 8
15	15.92	+42	33.30	+ 6	46.46	+ 2	51.37	+10	35.16	+ 2	4.96	+10
16	16.17	+56	33.60	+ 2	46.59	+ 5	51.51	+ 8	35.67	+11	5.08	+10
17	16.39	+58	33.89	− 2	46.71	+ 6	51.66	+ 6	36.18	+18	5.20	+ 7
18	16.58	+48	34.17	− 6	46.83	+ 6	51.81	+ 2	36.69	+21	5.32	+ 3
19	16.74	+29	34.45	− 8	46.95	+ 5	51.97	− 2	37.19	+20	5.45	− 1
20	16.88	+ 8	34.75	− 8	47.07	+ 3	52.13	− 5	37.68	+14	5.59	− 3
21	16.98	−12	35.05	− 6	47.19	0	52.30	− 6	38.17	+ 6	5.73	− 5
22	17.05	−27	35.35	− 2	47.31	− 2	52.48	− 5	38.66	− 3	5.88	− 6
23	17.10	−33	35.64	+ 1	47.42	− 4	52.66	− 4	39.13	−11	6.03	− 4
24	17.12	−30	35.94	+ 5	47.53	− 4	52.84	0	39.60	−16	6.19	− 2
25	17.11	−21	36.23	+ 8	47.64	− 4	53.02	+ 2	40.07	−17	6.35	+ 1
26	17.07	− 7	36.52	+ 9	47.75	− 3	53.21	+ 5	40.53	−16	6.52	+ 4
27	17.00	+ 8	36.81	+ 9	47.86	− 2	53.41	+ 7	40.98	−11	6.69	+ 6
28	16.90	+22	37.11	+ 8	47.96	0	53.61	+ 8	41.42	− 5	6.86	+ 8
29	16.78	+33	37.41	+ 4	48.06	+ 2	53.81	+ 8	41.86	+ 2	7.04	+ 8
30	16.62	+37	37.70	+ 1	48.16	+ 3	54.02	+ 5	42.29	+ 9	7.23	+ 7
31	16.43	+34	37.99	− 3	48.26	+ 4	54.24	+ 3	42.72	+14	7.43	+ 4
Aug. 1	16.22	+24	38.28	− 6	48.35	+ 4	54.46	− 1	43.13	+16	7.62	0
2	15.98	+ 8	38.57	− 9	48.45	+ 3	54.68	− 5	43.54	+16	7.82	− 4
3	15.71	−13	38.86	− 9	48.54	+ 2	54.90	− 9	43.94	+12	8.02	− 8
4	15.41	−34	39.15	− 8	48.62	− 1	55.13	−11	44.34	+ 5	8.24	−11
5	15.08	−51	39.43	− 6	48.71	− 3	55.36	−12	44.72	− 3	8.45	−12
6	14.72	−60	39.72	− 2	48.79	− 5	55.59	−10	45.10	−12	8.66	−12
7	14.34	−58	40.00	+ 3	48.87	− 6	55.83	− 7	45.47	−18	8.87	− 8
8	13.92	−45	40.28	+ 6	48.95	− 6	56.07	− 2	45.83	−21	9.10	− 3
9	13.48	−22	40.57	+ 9	49.03	− 4	56.31	+ 4	46.18	−19	9.33	+ 2
10	13.01	+ 5	40.85	+ 9	49.10	− 2	56.55	+ 7	46.53	−12	9.57	+ 7
sec δ, tg δ	89° 13′ 30″	73.932	−73.926		7.02		−6.95		87° 56′ 0″	27.730	−27.712	
	40	74.198	−74.191						10	27.767	−27.749	

1916	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ–5ᵐ				ι Octantis 6ᵐ–5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in ^{s} 0.01	−85° 11′	in ″ 0.01	$9^h 8^m$	in ^{s} 0.01	−85° 19′	in ″ 0.01	$12^h 45^m$	in ^{s} 0.01	−84° 40′	in ″ 0.01
Aug. 10	11.45	−7	1.83	+1	40.82	+1	53.20	−9	56.04	+7	37.61	−2
11	11.68	−4	1.91	+6	40.81	−3	52.90	−8	55.86	+6	37.45	−6
12	11.91	−1	2.00	+9	40.80	−6	52.59	−5	55.69	+4	37.29	−9
13	12.14	+3	2.08	+10	40.80	−8	52.30	−1	55.52	0	37.12	−11
14	12.37	+6	2.17	+10	40.81	−8	51.99	+3	55.35	−3	36.95	−9
15	12.60	+7	2.27	+7	40.82	−7	51.69	+6	55.18	−6	36.77	−6
16	12.83	+7	2.38	+2	40.83	−4	51.38	+7	55.02	−7	36.59	−2
17	13.05	+5	2.50	−2	40.85	−1	51.08	+7	54.86	−5	36.40	+2
18	13.27	+2	2.62	−4	40.87	+3	50.78	+4	54.70	−4	36.21	+6
19	13.49	−1	2.75	−6	40.90	+5	50.47	+1	54.54	−1	36.01	+6
20	13.71	−4	2.88	−6	40.94	+6	50.17	−2	54.39	+2	35.80	+6
21	13.93	−6	3.01	−5	40.98	+6	49.88	−6	54.24	+5	35.59	+4
22	14.14	−7	3.16	−3	41.02	+5	49.58	−8	54.09	+7	35.38	+1
23	14.35	−7	3.31	0	41.07	+2	49.28	−9	53.94	+7	35.17	−1
24	14.56	−5	3.47	+3	41.12	0	48.99	−9	53.80	+7	34.95	−4
25	14.76	−3	3.63	+6	41.18	−3	48.69	−7	53.66	+5	34.73	−5
26	14.97	0	3.79	+8	41.24	−5	48.40	−2	53.52	+3	34.50	−7
27	15.17	+3	3.96	+7	41.31	−6	48.10	+1	53.39	−1	34.27	−8
28	15.37	+5	4.13	+6	41.38	−6	47.80	+5	53.26	−4	34.04	−7
29	15.57	+7	4.30	+4	41.46	−5	47.51	+8	53.13	−6	33.81	−3
30	15.76	+7	4.49	−1	41.54	−3	47.23	+10	53.00	−8	33.57	+1
31	15.95	+6	4.67	−5	41.63	0	46.94	+11	52.88	−8	33.31	+5
Sept. 1	16.14	+4	4.87	−10	41.72	+4	46.65	+9	52.76	−7	33.06	+9
2	16.32	+1	5.06	−11	41.81	+6	46.37	+5	52.65	−4	32.81	+11
3	16.50	−3	5.27	−11	41.91	+8	46.08	+1	52.53	0	32.57	+12
4	16.68	−6	5.47	−9	42.02	+8	45.81	−3	52.43	+3	32.31	+10
5	16.86	−7	5.68	−5	42.13	+6	45.52	−7	52.32	+6	32.05	+6
6	17.03	−7	5.89	0	42.24	+3	45.24	−9	52.22	+7	31.78	+1
7	17.19	−5	6.11	+4	42.36	−1	44.98	−9	52.12	+7	31.51	−4
8	17.36	−2	6.34	+8	42.48	−5	44.71	−6	52.03	+5	31.23	−8
9	17.52	+2	6.57	+10	42.60	−7	44.43	−2	51.94	+1	30.96	−10
10	17.68	+5	6.81	+10	42.73	−8	44.16	+3	51.85	−2	30.68	−10
11	17.83	+7	7.05	+7	42.87	−7	43.90	+6	51.77	−5	30.39	−6
12	17.98	+7	7.29	+4	43.01	−5	43.63	+7	51.69	−7	30.11	−3
13	18.13	+6	7.54	−1	43.15	−2	43.38	+7	51.62	−7	29.83	+2
14	18.27	+3	7.79	−4	43.30	+2	43.14	+5	51.55	−5	29.54	+5
15	18.41	0	8.04	−5	43.45	+4	42.89	+2	51.48	−2	29.25	+6
16	18.55	−3	8.30	−7	43.61	+6	42.64	−2	51.41	+1	28.96	+6
sec δ, tg δ	11.91		−11.87		12.28		−12.24		10.78		−10.73	

1916	Octantis 20 G. 7m				Octantis 26 G. 6m – 7m				χ Octantis 6m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	14h 45m	in s 0.01	−87° 49′	in ″ 0.01	16h 29m	in s 0.01	−86° 13′	in ″ 0.01	18h 6m	in s 0.01	−87° 40′	in ″ 0.01
Aug. 10	60.61	+16	11.35	+ 3	44.89	+ 8	19.28	+ 7	33.05	+ 7	9.53	+ 9
11	60.10	+17	11.35	− 2	44.63	+11	19.40	+ 2	32.74	+14	9.75	+ 5
12	59.59	+14	11.34	− 7	44.36	+11	19.51	− 4	32.42	+18	9.97	0
13	59.08	+ 7	11.33	−11	44.09	+ 9	19.61	− 8	32.10	+17	10.18	− 5
14	58.57	− 1	11.31	−12	43.82	+ 6	19.72	−11	31.76	+13	10.39	− 9
15	58.06	− 8	11.28	−10	43.55	0	19.81	−11	31.43	+ 7	10.59	−10
16	57.55	−13	11.24	− 6	43.27	− 4	19.90	−10	31.08	0	10.79	−10
17	57.04	−14	11.19	− 2	43.00	− 7	19.99	− 5	30.73	− 7	10.99	− 7
18	56.53	−11	11.15	+ 2	42.72	− 7	20.08	− 1	30.37	−10	11.19	− 3
19	56.02	− 7	11.10	+ 6	42.43	− 6	20.16	+ 3	30.00	−10	11.38	+ 2
20	55.52	+ 1	11.04	+ 7	42.15	− 3	20.23	+ 7	29.63	− 8	11.56	+ 5
21	55.01	+ 8	10.98	+ 8	41.86	+ 1	20.31	+ 9	29.25	− 4	11.74	+ 9
22	54.51	+13	10.90	+ 6	41.58	+ 5	20.37	+ 8	28.86	+ 2	11.92	+10
23	54.01	+17	10.82	+ 4	41.29	+ 8	20.42	+ 7	28.47	+ 7	12.09	+ 9
24	53.51	+17	10.75	0	41.00	+ 9	20.47	+ 4	28.07	+11	12.25	+ 7
25	53.02	+15	10.67	− 3	40.70	+10	20.52	0	27.67	+13	12.41	+ 4
26	52.53	+10	10.57	− 6	40.41	+ 8	20.56	− 3	27.26	+14	12.56	0
27	52.04	+ 4	10.46	− 8	40.12	+ 5	20.58	− 7	26.85	+12	12.71	− 4
28	51.55	− 4	10.35	− 7	39.82	+ 2	20.61	− 8	26.43	+ 7	12.86	− 7
29	51.06	−11	10.24	− 7	39.53	− 3	20.63	− 9	26.00	+ 1	13.00	− 9
30	50.58	−17	10.13	− 4	39.23	− 8	20.64	− 7	25.57	− 6	13.14	−10
31	50.11	−20	10.01	0	38.93	−11	20.65	− 4	25.14	−13	13.28	− 8
Sept. 1	49.63	−20	9.88	+ 5	38.63	−13	20.65	0	24.69	−19	13.41	− 4
2	49.16	−16	9.75	+ 8	38.34	−12	20.64	+ 4	24.25	−20	13.53	0
3	48.70	− 8	9.61	+11	38.04	−10	20.63	+ 8	23.80	−19	13.65	+ 5
4	48.24	0	9.47	+12	37.74	− 5	20.63	+11	23.35	−14	13.76	+ 9
5	47.78	+ 9	9.32	+ 9	37.44	+ 1	20.61	+11	22.89	− 6	13.86	+10
6	47.33	+15	9.16	+ 5	37.14	+ 6	20.58	+ 8	22.43	+ 3	13.96	+ 9
7	46.88	+17	9.00	0	36.84	+ 9	20.54	+ 3	21.96	+11	14.06	+ 7
8	46.44	+15	8.83	− 5	36.54	+10	20.50	− 2	21.49	+16	14.15	+ 2
9	46.00	+ 9	8.67	−10	36.24	+ 9	20.46	− 7	21.02	+17	14.23	− 3
10	45.57	+ 1	8.50	−12	35.95	+ 6	20.42	−11	20.55	+14	14.31	− 7
11	45.15	− 7	8.31	−11	35.65	+ 1	20.36	−11	20.07	+ 8	14.38	−10
12	44.73	−13	8.13	− 9	35.36	− 3	20.30	−10	19.59	+ 1	14.45	−10
13	44.31	−15	7.95	− 3	35.06	− 7	20.23	− 7	19.10	− 5	14.52	− 8
14	43.90	−14	7.75	+ 1	34.77	− 8	20.16	− 2	18.61	−10	14.58	− 4
15	43.50	− 9	7.55	+ 5	34.47	− 7	20.08	+ 2	18.13	−11	14.63	0
16	43.11	− 2	7.35	+ 8	34.18	− 4	20.00	+ 6	17.64	−10	14.67	+ 4
sec δ, tg δ	87° 49′ 0″ 10	26.249 26.282	−26.230 −26.263		15.18		−15.14		87° 40′ 10″ 20	24.591 24.621	−24.571 −24.600	

Scheinbare Sternörter 1916

1916	σ Octantis 6m				β Octantis 4m.1				τ Octantis 6m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19h 28m	in s 0.01	−89° 13′	in ″ 0.01	22h 37m	in s 0.01	−81° 48′	in ″ 0.01	23h 16m	in s 0.01	−87° 56′	in ″ 0.01
Aug. 10	s 73.01	+ 5	″ 40.85	+ 9	s 49.10	− 2	″ 56.55	+ 7	s 46.53	−12	″ 9.57	+ 7
11	72.51	+30	41.12	+ 7	49.17	+ 1	56.80	+10	46.86	− 3	9.80	+ 9
12	71.99	+48	41.41	+ 3	49.24	+ 4	57.05	+ 9	47.19	+ 7	10.04	+10
13	71.44	+55	41.68	− 1	49.31	+ 6	57.31	+ 7	47.51	+16	10.28	+ 8
14	70.86	+49	41.95	− 6	49.37	+ 6	57.56	+ 3	47.82	+20	10.54	+ 5
15	70.25	+34	42.22	− 8	49.43	+ 5	57.82	− 1	48.11	+20	10.79	+ 1
16	69.62	+14	42.48	− 8	49.49	+ 4	58.08	− 4	48.40	+16	11.04	− 3
17	68.96	− 7	42.75	− 8	49.55	+ 1	58.34	− 6	48.69	+ 9	11.29	− 5
18	68.27	−23	43.00	− 4	49.60	− 1	58.61	− 6	48.96	0	11.55	− 6
19	67.56	−31	43.25	0	49.65	− 3	58.87	− 4	49.22	− 8	11.81	− 5
20	66.82	−31	43.51	+ 4	49.70	− 4	59.15	− 2	49.47	−14	12.08	− 3
21	66.05	−24	43.77	+ 7	49.74	− 4	59.42	+ 2	49.72	−17	12.35	+ 1
22	65.26	−11	44.02	+10	49.78	− 4	59.69	+ 5	49.95	−16	12.62	+ 4
23	64.44	+ 4	44.27	+10	49.82	− 2	59.97	+ 7	50.17	−13	12.89	+ 6
24	63.60	+19	44.51	+ 7	49.86	− 1	60.25	+ 8	50.38	− 7	13.17	+ 7
25	62.73	+31	44.74	+ 5	49.89	+ 1	60.52	+ 8	50.58	− 1	13.44	+ 8
26	61.83	+37	44.98	+ 2	49.92	+ 3	60.80	+ 7	50.78	+ 6	13.72	+ 7
27	60.92	+38	45.23	− 2	49.95	+ 4	61.10	+ 4	50.96	+12	14.00	+ 5
28	59.98	+31	45.46	− 6	49.98	+ 4	61.39	0	51.13	+16	14.29	+ 1
29	59.02	+17	45.68	− 8	50.00	+ 4	61.68	− 4	51.29	+17	14.58	− 2
30	58.02	− 2	45.90	− 9	50.02	+ 3	61.97	− 7	51.44	+14	14.87	− 6
31	57.01	−23	46.13	− 9	50.03	0	62.26	−10	51.59	+ 9	15.16	− 9
Sept. 1	55.98	−43	46.34	− 8	50.05	− 2	62.56	−11	51.72	+ 1	15.46	−11
2	54.92	−55	46.55	− 4	50.06	− 4	62.85	−11	51.84	− 8	15.75	−11
3	53.85	−58	46.76	0	50.07	− 6	63.14	− 7	51.94	−16	16.04	− 9
4	52.75	−50	46.96	+ 5	50.07	− 6	63.43	− 3	52.04	−20	16.33	− 4
5	51.63	−31	47.16	+ 8	50.08	− 5	63.72	+ 2	52.13	−20	16.63	0
6	50.49	− 6	47.36	+ 9	50.07	− 3	64.01	+ 6	52.20	−15	16.92	+ 5
7	49.32	+19	47.55	+ 7	50.07	0	64.30	+ 8	52.26	− 7	17.22	+ 8
8	48.14	+40	47.73	+ 5	50.07	+ 2	64.60	+ 9	52.32	+ 3	17.53	+ 9
9	46.94	+51	47.91	0	50.06	+ 5	64.89	+ 8	52.36	+12	17.83	+ 8
10	45.72	+50	48.09	− 5	50.05	+ 6	65.19	+ 4	52.39	+18	18.14	+ 5
11	44.48	+38	48.26	− 8	50.03	+ 6	65.48	− 1	52.41	+20	18.44	+ 1
12	43.23	+19	48.43	− 9	50.02	+ 4	65.78	− 3	52.42	+18	18.75	− 2
13	41.95	− 2	48.60	− 9	49.99	+ 2	66.07	− 7	52.41	+12	19.05	− 5
14	40.66	−20	48.75	− 6	49.97	0	66.37	− 7	52.40	+ 3	19.36	− 7
15	39.35	−31	48.90	− 2	49.94	− 2	66.66	− 6	52.37	− 5	19.66	− 6
16	38.03	−34	49.06	+ 1	49.92	− 4	66.95	− 3	52.34	−12	19.95	− 4
sec δ, tg δ	89° 13′ 40″	74.198	−74.191		7.03		−6.95		87° 56′ 10″	27.767	−27.749	
	50	74.466	−74.459						20	27.804	−27.786	

1916	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ–5ᵐ				ι Octantis 6ᵐ–5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in ^{s} 0.01	−85° 11′	in ″ 0.01	$9^h 8^m$	in ^{s} 0.01	−85° 19′	in ″ 0.01	$12^h 45^m$	in ^{s} 0.01	−84° 40′	in ″ 0.01
Sept. 16	18.55	−3	8.30	−7	43.61	+6	42.64	−2	51.41	+1	28.96	+6
17	18.68	−6	8.55	−6	43.77	+6	42.40	−6	51.36	+4	28.67	+4
18	18.80	−7	8.82	−3	43.94	+5	42.16	−7	51.30	+6	28.38	+2
19	18.93	−7	9.10	−1	44.10	+3	41.93	−10	51.25	+7	28.08	−1
20	19.05	−6	9.38	+3	44.28	+1	41.70	−10	51.20	+7	27.78	−5
21	19.16	−4	9.64	+5	44.45	−2	41.47	−8	51.16	+6	27.49	−6
22	19.27	−1	9.91	+7	44.63	−4	41.25	−4	51.12	+4	27.18	−8
23	19.38	+2	10.20	+8	44.82	−5	41.03	0	51.09	+1	26.88	−8
24	19.48	+4	10.48	+7	45.00	−6	40.82	+3	51.06	−2	26.57	−6
25	19.58	+6	10.76	+5	45.19	−5	40.60	+6	51.03	−5	26.27	−4
26	19.67	+7	11.05	+1	45.39	−4	40.39	+9	51.01	−7	25.96	−1
27	19.76	+7	11.34	−3	45.59	−1	40.20	+10	50.99	−8	25.65	+4
28	19.85	+5	11.63	−7	45.79	+2	40.00	+10	50.98	−7	25.34	+7
29	19.92	+2	11.93	−10	46.00	+5	39.82	+7	50.97	−5	25.03	+10
30	20.00	−1	12.23	−11	46.21	+7	39.62	+2	50.97	−2	24.72	+11
Okt. 1	20.07	−5	12.53	−10	46.42	+8	39.44	−1	50.97	+2	24.41	+11
2	20.14	−7	12.83	−7	46.63	+8	39.26	−6	{50.97 {50.98	+5 +7	24.10 23.80	+7 +3
3	20.20	−7	13.14	−2	46.85	+6	39.09	−9	51.00	+7	23.49	−1
4	20.25	−6	13.45	+3	47.07	+3	38.93	−10	51.02	+6	23.18	−6
5	20.30	−3	13.76	+7	47.29	−1	38.77	−7	51.04	+3	22.87	−9
6	20.35	0	14.07	+10	47.52	−4	38.61	−4	51.07	−1	22.56	−10
7	20.39	+4	14.39	+10	47.75	−7	38.45	0	51.10	−4	22.26	−8
8	20.43	+6	14.70	+8	47.99	−8	38.30	+3	51.13	−7	21.95	−5
9	20.46	+7	15.02	+4	48.22	−7	38.17	+8	51.17	−7	21.65	−1
10	20.49	+7	15.33	+1	48.46	−5	38.03	+8	51.22	−6	21.35	+2
11	20.51	+5	15.65	−3	48.70	−1	37.91	+7	51.27	−4	21.04	+6
12	20.53	+1	15.96	−6	48.94	+2	37.78	+5	51.32	−1	20.74	+7
13	20.54	−2	16.28	−7	49.19	+4	37.66	0	51.38	+3	20.44	+7
14	20.55	−5	16.60	−6	49.43	+6	37.55	−3	51.45	+5	20.13	+4
15	20.56	−7	16.93	−4	49.68	+6	37.44	−6	51.51	+7	19.83	+1
16	20.55	−7	17.25	−2	49.93	+5	37.34	−8	51.58	+7	19.55	−2
17	20.55	−6	17.57	+2	50.19	+3	37.25	−9	51.66	+7	19.25	−4
18	20.53	−5	17.89	+4	50.44	+1	37.16	−8	51.74	+6	18.96	−6
19	20.52	−2	18.20	+7	50.70	−2	37.09	−6	51.83	+4	18.67	−7
20	20.50	+1	18.52	+7	50.96	−4	37.01	−2	51.92	+1	18.38	−8
21	20.47	+4	18.84	+7	51.22	−5	36.95	+1	52.01	−2	18.10	−5
22	20.44	+6	19.15	+6	51.48	−6	36.89	+6	52.11	−5	17.81	−3
23	20.40	+7	19.47	+2	51.74	−5	36.84	+9	52.22	−8	17.52	+1
sec δ, tg δ	11.92		−11.88		12.28		−12.24		10.77		−10.72	

1916	Octantis 20 G. 7ᵐ				Octantis 26 G. 6ᵐ–7ᵐ				χ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in s 0.01	−87° 48′	in ″ 0.01	$16^h 29^m$	in s 0.01	−86° 13′	in ″ 0.01	$18^h 5^m$	in s 0.01	−87° 40′	in ″ 0.01
Sept. 16	43.11	− 2	67.35	+ 8	34.18	− 4	20.00	+ 6	77.64	−10	14.67	+ 4
17	42.72	+ 5	67.15	+ 7	33.89	− 1	19.90	+ 9	77.14	− 6	14.71	+ 7
18	42.34	+11	66.93	+ 7	33.60	+ 3	19.80	+ 9	76.65	− 1	14.74	+ 9
19	41.96	+15	66.71	+ 4	33.31	+ 7	19.70	+ 8	76.15	+ 5	14.76	+10
20	41.60	+17	66.49	+ 1	33.03	+ 9	19.60	+ 5	75.65	+10	14.78	+ 8
21	41.24	+16	66.25	− 3	32.74	+10	19.48	+ 1	75.15	+13	14.79	+ 5
22	40.88	+12	66.02	− 5	32.46	+ 9	19.35	− 2	74.65	+14	14.79	+ 1
23	40.54	+ 6	65.79	− 8	32.18	+ 7	19.22	− 6	74.15	+13	14.79	− 3
24	40.20	− 1	65.55	− 8	31.90	+ 3	19.09	− 8	73.65	+ 9	14.79	− 7
25	39.88	− 8	65.31	− 8	31.63	− 1	18.97	− 9	73.15	+ 4	14.79	− 9
26	39.56	−14	65.06	− 6	31.36	− 6	18.84	− 8	72.65	− 3	14.77	− 9
27	39.24	−19	64.81	− 2	31.08	−10	18.70	− 5	72.14	−10	14.75	− 9
28	38.94	−20	64.56	+ 2	30.81	−12	18.54	− 1	71.64	−16	14.73	− 6
29	38.64	−17	64.31	+ 7	30.55	−12	18.38	+ 3	71.14	−19	14.69	− 1
30	38.35	−11	64.04	+10	30.29	−10	18.22	+ 7	70.65	−19	14.65	+ 3
Okt. 1	38.08	− 2	63.77	+10	30.03	− 6	18.06	+10	70.15	−15	14.61	+ 7
2	37.81	+ 6	63.51	+ 9	29.77	− 1	17.89	+10	69.65	− 8	14.56	+10
3	37.55	+13	63.24	+ 7	29.52	+ 4	17.71	+ 9	69.15	+ 1	14.50	+11
4	37.30	+17	62.97	+ 2	29.27	+ 9	17.53	+ 6	68.65	+ 9	14.44	+ 8
5	37.06	+17	62.69	− 3	29.03	+11	17.34	+ 1	68.16	+15	14.37	+ 4
6	36.82	+12	62.40	− 8	28.79	+10	17.15	− 4	67.67	+17	14.30	− 3
7	36.60	+ 5	62.11	−11	28.55	+ 7	16.95	− 9	67.18	+16	14.21	− 7
8	36.39	− 4	61.84	−10	28.31	+ 3	16.74	−11	66.69	+10	14.12	−10
9	36.19	−11	61.55	− 9	28.08	− 2	16.54	−11	66.21	+ 3	14.02	−10
10	36.00	−15	61.26	− 5	27.86	− 6	16.33	− 9	65.73	− 4	13.91	− 7
11	35.82	−15	60.96	− 1	27.64	− 8	16.12	− 4	65.25	−10	13.80	− 4
12	35.64	−12	60.68	+ 4	27.42	− 8	15.89	+ 1	64.77	−12	13.69	+ 1
13	35.48	− 6	60.38	+ 7	27.20	− 6	15.66	+ 5	64.30	−12	13.57	+ 5
14	35.33	+ 2	60.08	+ 8	26.99	− 3	15.44	+ 8	63.83	− 8	13.45	+ 8
15	35.19	+ 9	59.77	+ 7	26.79	+ 2	15.21	+ 9	63.37	− 3	13.33	+ 9
16	35.06	+14	59.46	+ 6	26.59	+ 5	14.97	+ 9	62.91	+ 3	13.19	+ 9
17	34.94	+17	59.16	+ 3	26.39	+ 8	14.71	+ 6	62.45	+ 8	13.05	+ 9
18	34.83	+17	58.85	0	26.20	+10	14.46	+ 2	62.00	+12	12.92	+ 6
19	34.73	+14	58.53	− 3	26.02	+ 9	14.21	− 1	61.55	+14	12.77	+ 2
20	34.64	+ 9	58.22	− 6	25.84	+ 8	13.95	− 5	61.10	+13	12.61	− 2
21	34.56	+ 2	57.90	− 8	25.66	+ 4	13.69	− 7	60.66	+10	12.45	− 5
22	34.50	− 6	57.60	− 7	25.49	0	13.44	− 9	60.23	+ 5	12.28	− 7
23	34.44	−13	57.28	− 5	25.33	− 4	13.18	− 9	59.80	− 1	12.11	− 9
sec δ, tg δ	87° 48′ 60″ 70	26.249 26.282	−26.230 −26.263		15.17		−15.14		87° 40′ 10″ 20	24.591 24.621	−24.571 −24.600	

1916	σ Octantis 6ᵐ				β Octantis 4ᵐ.1				τ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 27^m$ s	in s 0.01	−89° 13′ ″	in ″ 0.01	$22^h 37^m$ s	in s 0.01	−81° 49′ ″	in ″ 0.01	$23^h 16^m$ s	in s 0.01	−87° 56′ ″	in ″ 0.01
Sept. 16	98.03	−34	49.06	+ 1	49.92	− 4	6.95	− 3	52.34	−12	19.95	− 4
17	96.69	−28	49.21	+ 6	49.89	− 4	7.24	+ 1	52.29	−16	20.24	0
18	95.33	−17	49.34	+ 8	49.85	− 4	7.53	+ 4	52.23	−17	20.55	+ 3
19	93.96	− 2	49.47	+ 9	49.81	− 3	7.81	+ 7	52.16	−15	20.86	+ 6
20	92.57	+14	49.60	+ 8	49.77	− 1	8.10	+ 8	52.08	−10	21.16	+ 7
21	91.17	+27	49.72	+ 7	49.73	+ 1	8.39	+ 8	51.99	− 3	21.46	+ 8
22	89.76	+36	49.83	+ 4	49.68	+ 2	8.68	+ 7	51.88	+ 4	21.76	+ 8
23	88.33	+39	49.94	0	49.64	+ 4	8.96	+ 5	51.77	+10	22.07	+ 5
24	86.89	+34	50.05	− 3	49.59	+ 4	9.24	+ 2	51.64	+15	22.37	+ 3
25	85.44	+23	50.15	− 8	49.53	+ 4	9.52	− 2	51.51	+17	22.66	− 1
26	83.98	+ 6	50.23	− 9	49.48	+ 3	9.79	− 6	51.36	+16	22.96	− 5
27	82.50	−14	50.32	− 9	49.42	+ 1	10.07	− 9	51.20	+11	23.26	− 8
28	81.02	−34	50.40	− 8	49.36	− 1	10.34	−11	51.03	+ 4	23.56	−11
29	79.53	−49	50.47	− 5	49.29	− 3	10.61	−10	50.84	− 5	23.86	−11
30	78.03	−56	50.54	− 1	49.23	− 5	10.88	− 7	50.65	−13	24.15	− 9
Okt. 1	76.52	−52	50.59	+ 3	49.16	− 6	11.15	− 4	50.45	−18	24.43	− 5
2	75.01	−37	50.66	+ 8	49.09	− 5	11.41	+ 1	50.24	−20	24.72	− 1
3	73.49	−14	50.72	+10	49.01	− 4	11.67	+ 5	50.01	−17	25.01	+ 4
4	71.96	+11	50.76	+ 9	48.93	− 1	11.93	+ 8	49.77	−10	25.29	+ 7
5	70.42	+34	50.80	+ 6	48.85	+ 1	12.19	+ 9	49.53	− 1	25.57	+ 9
6	68.88	+48	50.84	+ 3	48.77	+ 4	12.43	+ 8	49.27	+ 9	25.85	+ 9
7	67.34	+51	50.87	− 2	48.69	+ 6	12.68	+ 5	49.00	+16	26.12	+ 7
8	65.79	+43	50.89	− 6	48.61	+ 6	12.93	+ 2	48.72	+20	26.39	+ 2
9	64.23	+26	50.89	− 8	48.52	+ 5	13.17	− 3	48.43	+19	26.67	− 2
10	62.68	+ 4	50.90	− 8	48.43	+ 3	13.42	− 6	48.14	+14	26.94	− 5
11	61.12	−16	50.90	− 7	48.33	+ 1	13.65	− 8	47.83	+ 6	27.21	− 7
12	59.56	−30	50.90	− 4	48.24	− 2	13.89	− 7	47.51	− 2	27.47	− 7
13	58.00	−36	50.88	+ 1	48.14	− 4	14.11	− 4	47.18	−10	27.72	− 5
14	56.44	−33	50.88	+ 6	48.04	− 4	14.33	0	46.84	−15	27.98	− 3
15	54.88	−23	50.86	+ 8	47.94	− 4	14.56	+ 2	46.50	−17	28.23	+ 1
16	53.33	− 8	50.83	+ 9	47.83	− 3	14.78	+ 5	46.14	−16	28.49	+ 4
17	51.77	+ 8	50.79	+ 9	47.73	− 2	14.99	+ 8	45.77	−12	28.74	+ 6
18	50.21	+22	50.75	+ 8	47.62	0	15.20	+ 9	45.40	− 6	28.99	+ 8
19	48.66	+33	50.70	+ 5	47.51	+ 2	15.41	+ 7	45.01	+ 1	29.22	+ 8
20	47.11	+38	50.64	+ 2	47.40	+ 3	15.61	+ 5	44.61	+ 8	29.46	+ 7
21	45.57	+36	50.57	− 2	47.29	+ 4	15.80	+ 3	44.21	+13	29.69	+ 4
22	44.03	+27	50.51	− 7	47.17	+ 4	15.99	0	43.80	+16	29.92	0
23	42.49	+12	50.45	− 9	47.06	+ 4	16.18	− 4	43.38	+16	30.13	− 4
sec δ, tg δ	89° 13′ 40″ 50	74.198 74.466	−74.191 −74.459		7.03		−6.96		87° 56′ 20″ 30	27.804 27.842	−27.786 −27.824	

1916	Octantis 4 G. 6^m				ζ Octantis 6^m–5^m				ι Octantis 6^m–5^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h 42^m s	in s 0.01	−85° 11′ ″	in ″ 0.01	9^h 8^m s	in s 0.01	−85° 19′ ″	in ″ 0.01	12^h 45^m s	in s 0.01	−84° 40′ ″	in ″ 0.01
Okt. 23	20.40	+7	19.47	+2	51.74	−5	36.84	+9	52.22	−8	17.52	+1
24	20.36	+7	19.78	−1	52.01	−3	36.79	+10	52.32	−8	17.25	+5
25	20.31	+6	20.10	−6	52.27	+1	36.74	+10	52.43	−6	16.98	+9
26	20.26	+3	20.42	−9	52.54	+4	36.70	+8	52.55	−3	16.70	+10
27	20.21	0	20.74	−10	52.81	+6	36.67	+4	52.67	0	16.42	+11
28	20.14	−3	21.05	−10	53.08	+8	36.64	0	52.79	+4	16.16	+8
29	20.08	−6	21.37	−8	53.35	+7	36.62	−5	52.92	+7	15.91	+5
30	20.01	−7	21.68	−3	53.62	+5	36.61	−8	53.05	+8	15.65	0
31	19.93	−7	22.00	+2	53.89	+2	36.60	−9	53.19	+7	15.39	−5
Nov. 1	19.85	−5	22.31	+6	54.16	−2	36.60	−8	53.33	+5	15.15	−8
2	19.77	−2	22.62	+9	54.43	−5	36.62	−6	53.48	+1	14.90	−10
3	19.68	+2	22.92	+10	54.71	−7	36.64	−2	53.63	−3	14.65	−10
4	19.58	+5	23.23	+10	54.98	−8	36.65	+2	53.78	−6	14.40	−7
5	19.48	+7	23.52	+6	55.25	−7	36.68	+7	53.93	−7	14.17	−2
6	19.38	+7	23.82	+2	55.52	−4	36.72	+8	54.09	−7	13.94	+1
7	19.27	+5	24.11	−2	55.80	−1	36.76	+7	54.26	−5	13.70	+4
8	19.16	+3	24.41	−5	56.07	+3	36.80	+5	54.43	−2	13.46	+7
9	19.04	−1	24.70	−7	56.34	+5	36.86	+2	54.60	+1	13.23	+7
10	18.92	−4	24.99	−7	56.62	+6	36.92	−3	54.77	+4	13.01	+5
11	18.79	−6	25.27	−6	56.89	+6	36.98	−6	54.95	+7	12.80	+3
12	18.66	−7	25.55	−3	57.16	+5	37.06	−8	55.13	+7	12.57	−1
13	18.53	−7	25.82	0	57.43	+3	37.14	−9	55.32	+7	12.36	−4
14	18.39	−5	26.10	+4	57.70	0	37.22	−9	55.51	+5	12.15	−6
15	18.24	−3	26.38	+6	57.97	−2	37.32	−5	55.70	+3	11.95	−7
16	18.09	0	26.65	+7	58.23	−4	37.41	−3	55.89	0	11.77	−7
17	17.94	+3	26.91	+7	58.50	−5	37.51	+1	56.09	−3	11.58	−5
18	17.78	+5	27.18	+5	58.77	−6	37.62	+4	56.29	−6	11.40	−3
19	17.62	+7	27.44	+3	59.03	−5	37.74	+8	56.50	−8	11.23	0
20	17.46	+7	27.69	−1	59.29	−3	37.87	+10	56.71	−8	11.06	+4
21	17.29	+7	27.95	−5	59.55	0	38.00	+11	56.91	−7	10.89	+8
22	17.12	+5	28.20	−9	59.81	+3	38.14	+9	57.13	−5	10.73	+9
23	16.94	+1	28.44	−11	60.07	+6	38.28	+6	57.34	−1	10.58	+11
24	16.76	−2	28.68	−11	60.33	+7	38.43	+2	57.56	+2	10.43	+9
25	16.57	−5	28.91	−9	60.58	+8	38.59	−3	57.79	+6	10.29	+7
26	16.39	−7	29.14	−5	60.83	+6	38.75	−7	58.01	+7	10.15	+2
27	16.19	−7	29.37	0	61.08	+3	38.92	−9	58.24	+7	10.02	−3
28	16.00	−6	29.58	+5	61.33	−1	39.10	−9	58.47	+6	9.90	−8
29	15.80	−3	29.80	+9	61.58	−4	39.28	−7	58.70	+3	9.78	−10
sec δ, tg δ	11.93		−11.88		12.27		−12.23		10.77		−10.72	

1916	Octantis 20 G. 7^m				Octantis 26 G. 6^m – 7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	14ʰ 45ᵐ	in ˢ 0.01	–87° 48′	in ″ 0.01	16ʰ 29ᵐ	in ˢ 0.01	–86° 13′	in ″ 0.01	18ʰ 5ᵐ	in ˢ 0.01	–87° 40′	in ″ 0.01
Okt. 23	ˢ34.44	–13	″57.28	– 5	ˢ25.33	– 4	″13.18	– 9	ˢ59.80	– 1	″12.11	– 9
24	34.40	–18	56.96	– 4	25.17	– 8	12.91	– 8	59.38	– 8	11.94	– 8
25	34.36	–20	56.65	+ 1	25.01	–11	12.64	– 4	58.96	–14	11.75	– 7
26	34.34	–17	56.33	+ 6	24.86	–13	12.37	0	58.55	–18	11.55	– 3
27	34.33	–13	56.01	+ 9	24.72	–11	12.09	+ 5	58.14	–19	11.35	+ 2
28	34.33	– 6	55.69	+10	24.58	– 8	11.80	+10	57.75	–16	11.15	+ 6
29	34.34	+ 3	55.38	+10	24.45	– 3	11.52	+12	57.36	–11	10.94	+ 9
30	34.37	+12	55.06	+ 8	24.33	+ 3	11.22	+11	56.97	– 2	10.73	+10
31	34.40	+16	54.74	+ 4	24.21	+ 8	10.93	+ 7	56.59	+ 7	10.52	+ 9
Nov. 1	{34.45 34.50	+18 +15	54.43 54.11	– 2 – 6	24.10	+11	10.65	+ 3	56.22	+14	10.30	+ 5
2	34.57	+ 9	53.79	– 9	23.99	+11	10.35	– 4	55.85	+18	10.07	0
3	34.65	+ 1	53.47	–11	23.89	+ 9	10.05	– 7	55.50	+18	9.84	– 5
4	34.74	– 8	53.15	–10	23.79	+ 5	9.76	–10	55.15	+14	9.60	– 9
5	34.85	–14	52.83	– 7	23.70	0	9.47	–11	54.80	+ 7	9.37	–10
6	34.96	–16	52.51	– 2	23.62	– 5	9.16	– 8	54.47	– 1	9.13	–10
7	35.09	–14	52.21	+ 2	23.54	– 8	8.84	– 6	54.14	– 8	8.88	– 7
8	35.23	– 9	51.89	+ 5	23.47	– 9	8.53	– 1	53.82	–12	8.63	– 3
9	35.37	– 1	51.58	+ 7	23.41	– 7	8.22	+ 4	53.51	–13	8.37	+ 2
10	35.53	+ 6	51.27	+ 7	23.35	– 4	7.90	+ 7	53.20	–10	8.11	+ 6
11	35.70	+12	50.96	+ 6	23.30	0	7.59	+ 9	52.91	– 6	7.84	+ 8
12	35.88	+16	50.66	+ 4	23.25	+ 4	7.27	+ 9	52.62	0	7.58	+ 9
13	36.07	+17	50.36	+ 1	23.21	+ 7	6.97	+ 7	52.34	+ 6	7.31	+ 9
14	36.28	+15	50.05	– 3	23.18	+ 9	6.66	+ 5	52.08	+11	7.04	+ 7
15	36.50	+11	49.75	– 5	23.16	+ 9	6.35	+ 1	51.82	+13	6.77	+ 4
16	36.72	+ 4	49.46	– 6	23.14	+ 8	6.02	– 4	51.57	+13	6.48	0
17	36.96	– 3	49.16	– 7	23.13	+ 5	5.69	– 7	51.33	+12	6.20	– 3
18	37.20	–10	48.86	– 6	23.12	+ 2	5.37	– 8	51.10	+ 7	5.91	– 7
19	37.46	–16	48.57	– 3	23.12	– 3	5.05	– 9	50.87	+ 1	5.63	– 9
20	37.73	–20	48.28	0	23.13	– 7	4.73	– 7	50.66	– 6	5.33	– 9
21	38.01	–20	48.00	+ 4	23.15	–11	4.41	– 5	50.46	–13	5.03	– 8
22	38.30	–16	47.71	+ 7	23.17	–13	4.09	– 1	50.26	–18	4.72	– 5
23	38.60	–10	47.43	+10	23.19	–13	3.79	+ 3	50.08	–20	4.42	– 1
24	38.91	– 1	47.15	+11	23.23	–10	3.47	+ 8	49.90	–19	4.12	+ 4
25	39.23	+ 8	46.87	+ 9	23.27	– 5	3.15	+10	49.74	–14	3.81	+ 8
26	39.56	+15	46.59	+ 6	23.32	0	2.82	+10	49.58	– 6	3.50	+10
27	39.90	+18	46.33	+ 1	{23.37 23.44	+ 6 +10	2.49 2.17	+ 8 + 4	49.44	+ 3	3.19	+10
28	40.25	+18	46.07	– 4	23.51	+12	1.85	0	49.30	+12	2.87	+ 8
29	40.61	+12	45.81	– 9	23.58	+11	1.54	– 5	49.18	+17	2.54	+ 3
sec δ, tg δ	87° 48′ 50″ 60	26.215 26.249	–26.196 –26.230		15.16		–15.13		87° 40′ 0″ 10	24.562 24.591	–24.542 –24.571	

1916	σ Octantis 6^m				β Octantis 4^m.1				τ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19^h 26^m	in ^{s} 0.01	−89° 13′	in $''$ 0.01	22^h 37^m	in ^{s} 0.01	−81° 49′	in $''$ 0.01	23^h 16^m	in ^{s} 0.01	−87° 56′	in $''$ 0.01
Okt. 23	102.49	+12	50.45	− 9	47.06	+4	16.18	− 4	43.38	+16	30.13	− 4
24	100.96	− 7	50.37	− 9	46.94	+2	16.36	− 8	42.95	+13	30.35	− 8
25	99.44	−27	50.28	− 8	46.82	0	16.53	−10	42.52	+ 7	30.56	−10
26	97.93	−44	50.20	− 6	46.70	−2	16.70	−11	42.07	− 1	30.78	−10
27	96.42	−54	50.10	− 3	46.57	−4	16.87	− 9	41.61	−10	30.98	− 9
28	94.92	−53	50.00	+ 2	46.45	−6	17.04	− 7	41.15	−16	31.17	− 7
29	93.44	−42	49.88	+ 6	46.32	−6	17.20	− 2	40.68	−19	31.36	− 2
30	91.96	−22	49.76	+ 9	46.20	−5	17.36	+ 4	40.21	−18	31.55	+ 3
31	90.49	+ 4	49.64	+ 9	46.07	−2	17.51	+ 8	39.72	−13	31.74	+ 7
Nov. 1	89.03	+28	49.52	+ 7	45.94	+1	17.65	+ 9	39.23	− 5	31.93	+10
2	87.59	+46	49.38	+ 4	45.81	+3	17.79	+ 9	38.73	+ 5	32.10	+10
3	86.16	+54	49.25	− 1	45.67	+5	17.92	+ 6	38.23	+14	32.27	+ 8
4	84.74	+49	49.10	− 5	45.54	+6	18.04	+ 4	37.72	+19	32.43	+ 4
5	83.33	+35	48.94	− 8	45.41	+5	18.15	− 1	37.20	+20	32.59	0
6	81.94	+14	48.77	−10	45.27	+4	18.26	− 4	36.68	+17	32.75	− 4
7	80.56	− 8	48.61	− 8	45.13	+1	18.37	− 7	36.15	+10	32.90	− 6
8	79.20	−26	48.45	− 5	45.00	−1	18.47	− 7	35.61	+ 1	33.04	− 7
9	77.86	−36	48.27	0	44.86	−3	18.56	− 6	35.07	− 8	33.18	− 6
10	76.53	−36	48.09	+ 3	44.72	−4	18.65	− 3	34.53	−14	33.31	− 4
11	75.21	−29	47.90	+ 6	44.58	−5	18.73	0	33.98	−17	33.44	0
12	73.92	−15	47.70	+ 8	44.44	−4	18.81	+ 4	33.42	−17	33.56	+ 4
13	72.64	+ 1	47.52	+ 8	44.30	−3	18.89	+ 7	32.86	−14	33.68	+ 7
14	71.38	+17	47.32	+ 8	44.15	−1	18.96	+ 8	32.29	− 8	33.79	+ 8
15	70.14	+29	47.12	+ 6	44.01	+1	19.01	+ 8	31.72	− 1	33.90	+ 7
16	68.92	+36	46.91	+ 3	43.87	+3	19.06	+ 7	31.14	+ 6	34.00	+ 6
17	67.72	+36	46.70	− 2	43.72	+4	19.11	+ 4	30.56	+11	34.08	+ 4
18	66.54	+30	46.47	− 5	43.58	+4	19.15	0	29.98	+15	34.17	+ 2
19	65.38	+17	46.24	− 8	43.44	+4	19.18	− 3	29.40	+16	34.24	− 2
20	64.25	− 1	46.01	− 9	43.29	+3	19.21	− 7	28.81	+14	34.31	− 6
21	63.13	−21	45.77	−10	43.15	+1	19.23	−10	28.21	+ 9	34.37	− 9
22	62.04	−40	45.52	− 8	43.00	−2	19.24	−11	27.62	+ 2	34.43	−11
23	60.97	−53	45.28	− 4	42.86	−4	19.24	−10	27.02	− 7	34.49	−11
24	59.92	−57	45.02	+ 1	42.71	−5	19.25	− 8	26.42	−14	34.53	− 9
25	58.89	−49	44.77	+ 5	42.57	−6	19.25	− 3	25.81	−18	34.58	− 5
26	57.89	−32	44.50	+ 9	42.42	−5	19.24	+ 2	25.21	−19	34.62	0
27	56.92	− 7	44.22	+10	42.28	−3	19.22	+ 6	24.60	−16	34.64	+ 5
28	55.97	+20	43.95	+ 9	42.13	−1	19.21	+10	23.99	− 8	34.65	+ 9
29	55.04	+42	43.68	+ 6	41.99	+2	19.18	+10	23.38	+ 2	34.66	+10
sec δ, tg δ	89° 13′ 40″	74.198	−74.191		7.03		−6.96		87° 56′ 30″	27.842	−27.824	
	50	74.466	−74.459						40	27.880	−27.862	

1916	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ – 5ᵐ				ι Octantis 6ᵐ – 5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in s 0.01	−85° 11′	in ″ 0.01	$9^h 9^m$	in s 0.01	−85° 19′	in ″ 0.01	$12^h 45^m$	in s 0.01	−84° 40′	in ″ 0.01
Nov. 29	15.80	−3	29.80	+9	1.58	−4	39.28	−7	58.70	+3	9.78	−10
30	15.60	+1	30.00	+11	1.82	−7	39.48	−3	58.93	−1	9.67	−11
Dez. 1	15.39	+4	30.21	+11	2.06	−8	39.67	+1	59.17	−4	9.55	−9
2	15.18	+6	30.41	+8	2.30	−8	39.87	+5	59.41	−7	9.45	−5
3	14.97	+7	30.61	+4	2.54	−5	40.07	+8	59.65	−7	9.36	−1
4	14.75	+6	30.80	−1	2.77	−2	40.28	+8	59.89	−6	9.27	+4
5	14.54	+4	30.99	−5	3.00	+1	40.50	+7	60.13	−3	9.19	+6
6	14.32	+1	31.18	−7	3.23	+4	40.73	+3	60.38	0	9.11	+6
7	14.09	−3	31.36	−7	3.46	+6	40.95	−1	60.63	+3	9.05	+6
8	13.86	−5	31.52	−6	3.68	+6	41.18	−5	60.87	+6	8.98	+4
9	13.63	−7	31.68	−3	3.90	+5	41.42	−7	61.12	+7	8.91	0
10	13.40	−7	31.85	−1	4.11	+4	41.66	−10	61.37	+7	8.86	−3
11	13.17	−6	32.00	+3	4.33	+1	41.91	−9	61.63	+6	8.81	−6
12	12.93	−4	32.15	+6	4.54	−2	42.16	−6	61.88	+4	8.77	−6
13	12.69	−1	32.29	+7	4.74	−4	42.42	−4	62.14	+1	8.74	−7
14	12.45	+2	32.43	+7	4.94	−5	42.68	0	62.39	−2	8.71	−6
15	12.20	+4	32.56	+6	5.14	−6	42.95	+3	62.65	−5	8.69	−4
16	11.95	+6	32.68	+4	5.33	−5	43.22	+6	62.91	−7	8.68	−1
17	11.70	+7	32.80	0	5.53	−3	43.50	+9	63.17	−8	8.68	+3
18	11.45	+7	32.91	−4	5.72	−1	43.78	+11	63.43	−7	8.67	+8
19	11.20	+6	33.01	−8	5.90	+2	44.07	+11	63.69	−6	8.68	+10
20	10.94	+3	33.11	−10	6.08	+5	44.36	+9	63.95	−3	8.70	+12
21	10.68	−1	33.20	−12	6.26	+7	44.66	+4	64.22	+1	8.72	+12
22	10.42	−4	33.29	−10	6.43	+8	44.95	0	64.48	+4	8.74	+9
23	10.16	−6	33.38	−8	6.60	+7	45.26	−6	64.74	+6	8.77	+4
24	9.90	−7	33.47	−3	6.76	+5	45.57	−8	65.01	+7	8.81	−1
25	9.63	−6	33.54	+3	6.92	+1	45.88	−10	65.27	+6	8.85	−6
26	9.37	−4	33.60	+8	7.08	−3	46.19	−9	65.53	+4	8.90	−9
27	9.10	−1	33.66	+10	7.23	−6	46.52	−6	65.80	0	8.96	−11
28	8.83	+3	33.71	+11	7.38	−8	46.84	−3	66.06	−3	9.02	−9
29	8.56	+6	33.75	+10	7.52	−8	47.17	+3	66.32	−6	9.09	−6
30	8.29	+7	33.79	+6	7.66	−7	47.50	+6	66.59	−7	9.17	−3
31	8.02	+7	33.83	+3	7.80	−4	47.83	+8	66.85	−7	9.25	+1
32	7.75	+5	33.86	−2	7.93	0	48.16	+7	67.11	−4	9.34	+5
sec δ, tg δ	11.93		−11.89		12.28		−12.24		10.76		−10.72	

Scheinbare Sternörter 1916

1916	Octantis 20 G. 7ᵐ				Octantis 26 G. 6ᵐ–7ᵐ				χ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in 0.01 s	−87° 48′	in 0.01 ″	$16^h 29^m$	in 0.01 s	−86° 12′	in 0.01 ″	$18^h 5^m$	in 0.01 s	−87° 39′	in 0.01 ″
Nov. 29	40.61	+12	45.81	− 9	23.58	+11	61.54	− 5	49.18	+17	62.54	+ 3
30	40.99	+ 5	45.55	−12	23.66	+ 8	61.22	−10	49.07	+19	62.22	− 2
Dez. 1	41.37	− 4	45.30	−11	23.75	+ 3	60.90	−12	48.96	+17	61.90	− 7
2	41.75	−11	45.05	− 9	23.85	− 2	60.58	−10	48.87	+11	61.57	−10
3	42.15	−15	44.81	− 5	23.95	− 6	60.27	− 8	48.79	+ 3	61.26	−11
4	42.56	−15	44.56	0	24.06	− 8	59.96	− 3	48.72	− 4	60.93	− 8
5	42.98	−11	44.31	+ 4	24.17	− 8	59.66	+ 1	48.66	−10	60.60	− 5
6	43.40	− 4	44.07	+ 7	24.29	− 6	59.34	+ 7	48.61	−12	60.27	0
7	43.84	+ 3	43.84	+ 8	24.42	− 2	59.02	+ 9	48.57	−11	59.94	+ 4
8	44.28	+10	43.62	+ 7	24.56	+ 2	58.71	+10	48.54	− 7	59.61	+ 7
9	44.73	+15	43.40	+ 5	24.70	+ 6	58.40	+ 9	48.52	− 2	59.28	+10
10	45.20	+17	43.18	+ 1	24.84	+ 9	58.10	+ 6	48.51	+ 4	58.94	+10
11	45.67	+16	42.97	− 2	24.99	+10	57.79	+ 3	48.51	+ 9	58.60	+ 8
12	46.14	+12	42.76	− 5	25.15	+ 9	57.49	− 1	48.52	+13	58.27	+ 4
13	46.63	+ 7	42.55	− 6	25.32	+ 7	57.19	− 4	48.55	+14	57.93	0
14	47.13	0	42.35	− 7	25.49	+ 3	56.90	− 7	48.59	+13	57.59	− 3
15	47.63	− 8	42.16	− 7	25.67	− 1	56.62	− 8	48.63	+ 9	57.26	− 5
16	48.14	−14	41.97	− 5	25.85	− 6	56.32	− 7	48.69	+ 3	56.93	− 8
17	48.65	−17	41.78	− 2	26.04	−10	56.03	− 5	48.75	− 4	56.60	−10
18	49.18	−20	41.60	+ 2	26.24	−13	55.75	− 2	48.83	−11	56.25	− 9
19	49.71	−19	41.43	+ 6	26.44	−14	55.47	+ 2	48.92	−17	55.92	− 6
20	50.24	−14	41.25	+ 9	26.65	−12	55.19	+ 6	49.02	−21	55.58	− 2
21	50.79	− 5	41.09	+11	26.86	− 8	54.91	+ 9	49.13	−21	55.24	+ 2
22	51.34	+ 3	40.93	+10	27.08	− 3	54.63	+10	49.25	−17	54.90	+ 6
23	51.89	+11	40.78	+ 8	27.31	+ 3	54.37	+10	{ 49.38 49.52	− 10 − 2	54.56 54.23	+ 9 + 11
24	52.46	+17	40.63	+ 3	27.54	+ 8	54.11	+ 7	49.67	+ 7	53.89	+ 9
25	53.02	+18	40.48	− 2	27.78	+11	53.85	+ 2	49.83	+15	53.55	+ 5
26	53.60	+14	40.34	− 7	28.02	+11	53.59	− 4	50.01	+19	53.21	+ 1
27	54.18	+ 8	40.20	−11	28.27	+ 9	53.33	− 8	50.19	+19	52.88	− 5
28	54.76	0	40.07	−11	28.52	+ 5	53.08	−11	50.38	+14	52.55	− 9
29	55.35	− 8	39.95	− 9	28.78	+ 1	52.83	−11	50.58	+ 8	52.22	−11
30	55.94	−13	39.84	− 7	29.04	− 4	52.59	− 9	50.80	0	51.90	−10
31	56.55	−14	39.73	− 2	29.31	− 7	52.35	− 6	51.02	− 7	51.58	− 7
32	57.15	−12	39.64	+ 2	29.58	− 8	52.12	0	51.25	−11	51.25	− 3
sec δ, tg δ	87° 48′ 40″ 50	26.182 26.215	−26.163 −26.196		15.15		−15.12		87° 39′ 50″ 60	24.533 24.562	−24.513 −24.542	

1916	σ Octantis 6m				β Octantis 4m.1				τ Octantis 6m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19h 26m	in s 0.01	−89° 13′	in ″ 0.01	22h 37m	in s 0.01	−81° 49′	in ″ 0.01	23h 16m	in s 0.01	−87° 56′	in ″ 0.01
Nov. 29	55.04	+42	43.68	+ 6	41.99	+ 2	19.18	+10	23.38	+ 2	34.66	+10
30	54.14	+55	43.40	+ 1	41.84	+ 5	19.14	+ 9	22.77	+11	34.67	+10
Dez. 1	53.27	+55	43.11	− 3	41.70	+ 6	19.10	+ 5	22.16	+18	34.67	+ 7
2	52.43	+44	42.83	− 6	41.56	+ 6	19.06	+ 1	21.55	+21	34.66	+ 3
3	51.61	+25	42.53	− 9	41.41	+ 5	19.00	− 2	20.93	+19	34.65	− 1
4	50.81	+ 2	42.24	− 9	41.27	+ 3	18.94	− 6	20.32	+13	34.63	− 5
5	50.05	−18	41.96	− 6	41.13	0	18.87	− 7	19.71	+ 5	34.62	− 7
6	49.31	−32	41.66	− 2	40.99	− 2	18.80	− 6	19.09	− 4	34.59	− 7
7	48.60	−36	41.36	+ 2	40.85	− 4	18.72	− 4	18.48	−11	34.55	− 5
8	47.92	−32	41.05	+ 5	40.71	− 5	18.63	0	17.87	−16	34.50	− 2
9	47.27	−20	40.75	+ 8	40.57	− 4	18.55	+ 3	17.26	−17	34.44	+ 2
10	46.65	− 5	40.44	+ 9	40.43	− 3	18.45	+ 6	16.65	−15	34.39	+ 6
11	46.05	+12	40.13	+ 9	40.29	− 1	18.35	+ 8	16.04	−10	34.32	+ 7
12	45.49	+26	39.80	+ 7	40.15	+ 1	18.23	+ 8	15.43	− 4	34.25	+ 8
13	44.95	+35	39.49	+ 5	40.02	+ 2	18.11	+ 8	14.82	+ 3	34.17	+ 7
14	44.45	+38	39.16	+ 1	39.88	+ 3	17.99	+ 5	14.22	+ 9	34.09	+ 6
15	43.97	+33	38.83	− 4	39.75	+ 4	17.86	+ 1	13.62	+14	34.01	+ 3
16	43.52	+22	38.50	− 7	39.62	+ 4	17.74	− 2	13.02	+16	33.91	− 1
17	43.10	+ 5	38.16	−10	39.48	+ 3	17.60	− 6	12.42	+15	33.80	− 5
18	42.72	−15	37.81	−11	39.35	+ 1	17.45	− 9	11.82	+11	33.68	−10
19	42.36	−36	37.48	−10	39.22	− 1	17.30	−12	11.23	+ 5	33.55	−12
20	42.04	−52	37.14	− 6	39.10	− 3	17.14	−12	10.64	− 3	33.42	−12
21	41.74	−60	36.81	− 2	38.97	− 5	16.97	− 9	10.05	−12	33.29	−11
22	41.48	−57	36.46	+ 2	38.84	− 6	16.80	− 5	9.47	−18	33.15	− 7
23	41.24	−43	36.11	+ 7	38.72	− 6	16.63	− 2	8.89	−20	33.01	− 2
24	41.04	−20	35.77	+ 9	38.60	− 4	16.46	+ 4	8.32	−18	32.87	+ 3
25	40.87	+ 7	35.42	+ 9	38.48	− 2	16.27	+ 7	7.74	−12	32.71	+ 7
26	40.73	+32	35.08	+ 8	38.36	+ 1	16.07	+ 9	7.17	− 3	32.55	+ 9
27	40.62	+50	34.72	+ 4	38.24	+ 4	15.87	+10	6.61	+ 7	32.39	+10
28	40.54	+57	34.38	0	38.12	+ 6	15.66	+ 7	6.05	+16	32.22	+ 9
29	40.49	+52	34.02	− 5	38.01	+ 6	15.45	+ 3	5.50	+20	32.05	+ 5
30	40.48	+36	33.67	− 8	37.89	+ 5	15.24	− 1	4.95	+20	31.87	+ 1
31	40.49	+14	33.31	− 9	37.78	+ 4	15.03	− 4	4.41	+16	31.69	− 4
32	40.54	− 8	32.96	− 8	37.67	+ 1	14.80	− 7	3.87	+ 8	31.50	− 6
sec δ, tg δ	89° 13′ 30″ 40	73.932 74.198	−73.926 −74.191		7.03		−6.96		87° 56′ 30″ 40	27.842 27.880	−27.824 −27.862	

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34215 + 0.00031\,T)\sin\Omega + 0.00415\sin 2\Omega - 0.02526\sin 2L_\odot$$
$$+ 0.00251\sin M_\odot - 0.00099\sin(2L_\odot + M_\odot) + 0.00042\sin(2L_\odot - M_\odot)$$
$$+ 0.00025\sin(2L_\odot - \Omega)$$

$$A' = -0.00405\sin 2L_☾ + 0.00135\sin M_☾ - 0.00068\sin(2L_☾ - \Omega)$$
$$- 0.00052\sin(2L_☾ + M_☾) + 0.00030\sin(2L_☾ - 2L_\odot - M_☾)$$
$$+ 0.00023\sin(2L_☾ - M_☾) + 0.00012\sin(2L_☾ - 2L_\odot)$$

$$B = -(9''.210 + 0''.001\,T)\cos\Omega + 0''.090\cos 2\Omega - 0''.551\cos 2L_\odot$$
$$- 0''.022\cos(2L_\odot + M_\odot) + 0''.009\cos(2L_\odot - M_\odot)$$
$$+ 0''.007\cos(2L_\odot - \Omega)$$

$$B' = -0''.089\cos 2L_☾ - 0''.018\cos(2L_☾ - \Omega) - 0''.011\cos(2L_☾ + M_☾)$$
$$+ 0''.005\cos(2L_☾ - M_☾)$$

$$C = -20''.47\cos\odot\cos\varepsilon$$
$$D = -20''.47\sin\odot$$
$$E = -(0^s.0029 - 0^s.0004\,T)\sin\Omega$$

T Zeit seit 1900 Jan. 0.0 mittl. Zt. Greenwich in Einheiten von 100 julianischen Jahren

t Zeit seit Beginn des annus fictus, in Bruchteilen des tropischen Jahres

$a = m + {}^1/_{15}\,n\sin\alpha\,\mathrm{tg}\,\delta$	$a' = n\cos\alpha$
$b = {}^1/_{15}\cos\alpha\,\mathrm{tg}\,\delta$	$b' = -\sin\alpha$
$c = {}^1/_{15}\cos\alpha\sec\delta$	$c' = \mathrm{tg}\,\varepsilon\cos\delta - \sin\alpha\sin\delta$
$d = {}^1/_{15}\sin\alpha\sec\delta$	$d' = \cos\alpha\sin\delta$

1916.0: $m = 3^s.0726$: $n = 20''.0455$

$$\alpha_{app.} = \alpha_{1916.0} + t\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{app.} = \delta_{1916.0} + t\mu_\delta + Aa' + Bb' + Cc' + Dd' \quad + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination

Setzt man:

$f = mA + E$	$f' = mA'$	$i = C\,\mathrm{tg}\,\varepsilon$
$g\sin G = B$	$g'\sin G' = B'$	$h\sin H = C$
$g\cos G = nA$	$g'\cos G' = nA'$	$h\cos H = D,$

so wird:

$$\alpha_{app.} = \alpha_{1916.0} + t\mu_\alpha + f + {}^1/_{15}\,g\sin(G+\alpha)\,\mathrm{tg}\,\delta + {}^1/_{15}\,h\sin(H+\alpha)\sec\delta$$
$$+ [f' + {}^1/_{15}\,g'\sin(G'+\alpha)\,\mathrm{tg}\,\delta]$$

$$\delta_{app.} = \delta_{1916.0} + t\mu_\delta + g\cos(G+\alpha) + h\cos(H+\alpha)\sin\delta + i\cos\delta$$
$$+ [g'\cos(G'+\alpha)]$$

Reduktionsgrößen 1916

für 0^h Sternzeit Greenwich

Mittlere Zeit Greenwich	t	log A[1]	log B[2]	log C	log D	E
1916 Jan. 0.2	−0.0026	9.42198	0.72997$_n$	0.46672$_n$	1.30578	+0^s.0021
10.2	+0.0247	9.47995	0.73239$_n$	0.78916$_n$	1.28646	21
20.2	0.0520	9.52854	0.73902$_n$	0.96317$_n$	1.25171	21
30.1	0.0793	9.56900	0.74834$_n$	1.07653$_n$	1.19896	21
Febr. 9.1	0.1066	9.60259	0.75838$_n$	1.15497$_n$	1.12333	21
19.1	0.1339	9.63055	0.76730$_n$	1.20949$_n$	1.01511	+0.0021
29.1	0.1612	9.65417	0.77342$_n$	1.24571$_n$	0.85242	21
März 10.0	0.1885	9.67467	0.77576$_n$	1.26654$_n$	0.56632	21
20.0	0.2158	9.69328	0.77349$_n$	1.27368$_n$	9.19312	22
30.0	0.2431	9.71105	0.76634$_n$	1.26776$_n$	0.52582$_n$	22
April 9.0	0.2704	9.72887	0.75435$_n$	1.24866$_n$	0.82937$_n$	+0.0022
18.9	0.2977	9.74739	0.73823$_n$	1.21542$_n$	0.99695$_n$	22
28.9	0.3250	9.76693	0.71867$_n$	1.16584$_n$	1.10745$_n$	22
Mai 8.9	0.3523	9.78756	0.69705$_n$	1.09590$_n$	1.18481$_n$	23
18.8	0.3796	9.80907	0.67514$_n$	0.99782$_n$	1.23955$_n$	23
28.8	0.4069	9.83111	0.65485$_n$	0.85497$_n$	1.27699$_n$	+0.0023
Juni 7.8	0.4342	9.85320	0.63769$_n$	0.62138$_n$	1.30009$_n$	23
17.8	0.4615	9.87486	0.62542$_n$	0.03902$_n$	1.31040$_n$	23
27.7	0.4888	9.89561	0.61888$_n$	0.30514	1.30860$_n$	23
Juli 7.7	0.5162	9.91510	0.61826$_n$	0.70552	1.29465$_n$	23
17.7	0.5435	9.93303	0.62294$_n$	0.90271	1.26771$_n$	+0.0023
27.7	0.5708	9.94925	0.63134$_n$	1.02914	1.22600$_n$	23
Aug. 6.6	0.5981	9.96368	0.64167$_n$	1.11747	1.16613$_n$	23
16.6	0.6254	9.97640	0.65205$_n$	1.18073	1.08207$_n$	24
26.6	0.6527	9.98758	0.66039$_n$	1.22526	0.96147$_n$	24
Sept. 5.5	0.6800	9.99750	0.66539$_n$	1.25450	0.77459$_n$	+0.0024
15.5	0.7073	0.00652	0.66549$_n$	1.27023	0.40926$_n$	24
25.5	0.7346	0.01504	0.65982$_n$	1.27323	9.96047	24
Okt. 5.5	0.7619	0.02348	0.64797$_n$	1.26350	0.64177	25
15.4	0.7892	0.03228	0.62961$_n$	1.24012	0.88902	25
25.4	0.8165	0.04172	0.60531$_n$	1.20137	1.03719	+0.0025
Nov. 4.4	0.8438	0.05203	0.57611$_n$	1.14389	1.13773	25
14.4	0.8711	0.06326	0.54357$_n$	1.06153	1.20855	25
24.3	0.8984	0.07533	0.51081$_n$	0.94206	1.25797	25
Dez. 4.3	0.9257	0.08801	0.48087$_n$	0.75587	1.29014	25
14.3	0.9530	0.10096	0.45697$_n$	0.39129	1.30737	+0.0025
24.2	0.9803	0.11382	0.44217$_n$	9.93399$_n$	1.31065	25
34.2	1.0076	0.12622	0.43823$_n$	0.61868$_n$	1.30020	25

[1]) ohne das Glied $+ 0.00025 \sin (2L_\odot - \Omega)$

[2]) ohne das Glied $+ 0''.007 \cos (2L_\odot - \Omega)$

Reduktionsgrößen 1916

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i	i
		s		h m		h m		″
Jan. 1.5	0.0009	+0.828	0.8814	21 0.4	1.3100	23 22.3	0.1620_n	−1.452
2.5	0.0036	0.840	0.8846	21 2.0	1.3098	23 18.5	0.2025_n	1.594
3.5	0.0064	0.852	0.8878	21 3.5	1.3095	23 14.7	0.2395_n	1.736
4.5	0.0091	0.864	0.8909	21 5.1	1.3093	23 11.0	0.2735_n	1.877
5.5	0.0119	0.875	0.8940	21 6.5	1.3090	23 7.2	0.3049_n	2.018
6.5	0.0146	+0.887	0.8972	21 8.0	1.3087	23 3.4	0.3340_n	−2.158
7.5	0.0173	0.898	0.9004	21 9.4	1.3084	22 59.6	0.3612_n	2.297
8.5	0.0201	0.910	0.9035	21 10.7	1.3080	22 55.8	0.3867_n	2.436
9.5	0.0228	0.921	0.9067	21 12.0	1.3076	22 52.0	0.4106_n	2.574
10.5	0.0255	0.933	0.9099	21 13.3	1.3073	22 48.2	0.4331_n	2.711
11.5	0.0283	+0.944	0.9130	21 14.6	1.3069	22 44.4	0.4544_n	−2.847
12.5	0.0310	0.955	0.9161	21 15.8	1.3065	22 40.6	0.4745_n	2.982
13.5	0.0338	0.967	0.9193	21 16.9	1.3060	22 36.8	0.4937_n	3.117
14.5	0.0365	0.978	0.9224	21 18.1	1.3056	22 33.0	0.5119_n	3.250
15.5	0.0392	0.989	0.9256	21 19.2	1.3051	22 29.1	0.5292_n	3.382
16.5	0.0420	+1.000	0.9286	21 20.3	1.3046	22 25.3	0.5458_n	−3.514
17.5	0.0447	1.011	0.9317	21 21.3	1.3041	22 21.4	0.5615_n	3.643
18.5	0.0474	1.021	0.9347	21 22.3	1.3036	22 17.6	0.5766_n	3.772
19.5	0.0502	1.032	0.9378	21 23.3	1.3031	22 13.7	0.5909_n	3.899
20.5	0.0529	1.043	0.9408	21 24.2	1.3025	22 9.8	0.6049_n	4.026
21.5	0.0557	+1.053	0.9438	21 25.2	1.3020	22 5.9	0.6183_n	−4.152
22.5	0.0584	1.064	0.9467	21 26.0	1.3014	22 2.0	0.6309_n	4.275
23.5	0.0611	1.074	0.9497	21 26.9	1.3008	21 58.1	0.6433_n	4.398
24.5	0.0639	1.084	0.9526	21 27.7	1.3003	21 54.2	0.6549_n	4.518
25.5	0.0666	1.095	0.9555	21 28.5	1.2997	21 50.3	0.6663_n	4.638
26.5	0.0693	+1.105	0.9584	21 29.3	1.2991	21 46.3	0.6773_n	−4.757
27.5	0.0721	1.115	0.9612	21 30.1	1.2984	21 42.4	0.6878_n	4.873
28.5	0.0748	1.125	0.9640	21 30.8	1.2978	21 38.4	0.6978_n	4.987
29.5	0.0776	1.134	0.9667	21 31.5	1.2972	21 34.4	0.7077_n	
30.5	0.0803	1.144	0.9695	21 32.2	1.2965	21 30.5	0.7171_n	
31.5	0.0830	+1.154	0.9722	21 32.9	1.2959	21 26.5	0.7262_n	
Febr. 1.5	0.0858	1.163	0.9748	21 33.5	1.2953	21 22.5	0.7350_n	
2.5	0.0885	1.173	0.9774	21 34.2	1.2946	21 18.5	0.7433_n	
3.5	0.0913	1.182	0.9800	21 34.8	1.2939	21 14.4	0.7515_n	
4.5	0.0940	1.191	0.9825	21 35.4	1.2933	21 10.4	0.7594_n	
5.5	0.0967	+1.200	0.9850	21 36.0	1.2926	21 6.4	0.7669_n	
6.5	0.0995	1.209	0.9874	21 36.5	1.2920	21 2.3	0.7743_n	
7.5	0.1022	1.218	0.9899	21 37.1	1.2913	20 58.2	0.7813_n	

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	in 0.001 s	in 0.01 "				in 0.01 "	23° 27'		in 0.01 "
Jan. 1.5	−15	+12	10.0 h	+0.04 "	+13.50 "	−25	6.14 "	+5.37 "	− 6
2.5	− 9	11	8.1	0.18	13.56	−15	6.14	5.37	− 9
3.5	− 1	11	6.2	0.32	13.61	− 1	6.14	5.37	−11
4.5	+ 7	11	4.2	0.46	13.66	+12	6.14	5.38	− 9
5.5	+14	11	2.2	0.59	13.72	+23	6.14	5.38	− 6
6.5	+18	+12	0.4	+0.73	+13.77	+29	6.14	+5.38	− 1
7.5	+17	12	22.7	0.87	13.82	+29	6.14	5.39	+ 4
8.5	+14	12	21.2	1.01	13.87	+23	6.15	5.39	+ 8
9.5	+ 8	12	19.9	1.14	13.92	+14	6.15	5.40	+10
10.5	+ 2	10	18.5	1.28	13.97	+ 3	6.15	5.40	+10
11.5	− 4	+ 8	16.8	+1.42	+14.02	− 6	6.16	+5.41	+ 8
12.5	− 8	7	14.6	1.56	14.06	−13	6.16	5.41	+ 4
13.5	−10	6	11.9	1.69	14.11	−16	6.17	5.42	0
14.5	− 9	7	9.6	1.83	14.15	−15	6.18	5.43	− 4
15.5	− 6	9	7.9	1.97	14.20	−10	6.18	5.44	− 7
16.5	− 2	+ 9	6.7	+2.11	+14.24	− 4	6.19	+5.45	− 9
17.5	+ 2	9	5.5	2.24	14.28	+ 3	6.20	5.46	− 9
18.5	+ 6	9	4.2	2.38	14.32	+10	6.21	5.46	− 8
19.5	+ 9	8	2.7	2.52	14.35	+15	6.22	5.47	− 5
20.5	+11	7	0.7	2.66	14.39	+17	6.22	5.48	− 1
21.5	+10	+ 7	22.4	+2.79	+14.43	+16	6.23	+5.49	+ 3
22.5	+ 7	8	20.2	2.93	14.46	+11	6.24	5.51	+ 7
23.5	+ 1	9	18.4	3.07	14.49	+ 2	6.25	5.52	+ 9
24.5	− 5	11	16.8	3.21	14.52	− 8	6.26	5.53	+10
25.5	−11	11	15.3	3.35	14.55	−18	6.27	5.54	+ 9
26.5	−16	+12	13.8	+3.48	+14.58	−26	6.29	+5.55	+ 5
27.5	−18	12	12.2	3.62	14.61	−30	6.30	5.56	+ 1
28.5	−17	12	10.5	3.76	14.63	−27	6.31	5.58	− 4
29.5	−12	11	8.8	3.90	14.65	−19	6.32	5.59	− 8
30.5	− 4	11	7.0	4.03	14.68	− 7	6.33	5.60	−11
31.5	+ 4	+10	5.1	+4.17	+14.70	+ 6	6.34	+5.62	−10
Febr. 1.5	+11	10	3.0	4.31	14.71	+18	6.35	5.63	− 7
2.5	+16	11	1.0	4.45	14.73	+26	6.36	5.64	− 3
3.5	+17	11	23.2	4.58	14.74	+27	6.38	5.65	+ 2
4.5	+14	12	21.6	4.72	14.76	+24	6.39	5.67	+ 7
5.5	+ 9	+12	20.2	+4.86	+14.77	+16	6.40	+5.68	+10
6.5	+ 3	11	18.8	5.00	14.78	+ 5	6.41	5.69	+10
7.5	− 3	9	17.2	5.13	14.79	− 4	6.42	5.71	+ 9

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i
		s		h m		h m	
Febr. 7.5	0.1022	+1.218	0.9899	21 37.1	1.2913	20 58.2	0.7813_n
8.5	0.1049	1.227	0.9923	21 37.6	1.2906	20 54.2	0.7882_n
9.5	0.1077	1.236	0.9947	21 38.1	1.2900	20 50.1	0.7948_n
10.5	0.1104	1.244	0.9970	21 38.7	1.2893	20 46.0	0.8011_n
11.5	0.1132	1.253	0.9993	21 39.2	1.2887	20 41.9	0.8072_n
12.5	0.1159	+1.261	1.0016	21 39.6	1.2880	20 37.7	0.8130_n
13.5	0.1186	1.270	1.0038	21 40.1	1.2874	20 33.6	0.8187_n
14.5	0.1214	1.278	1.0060	21 40.6	1.2867	20 29.5	0.8243_n
15.5	0.1241	1.286	1.0082	21 41.1	1.2861	20 25.3	0.8295_n
16.5	0.1268	1.294	1.0103	21 41.5	1.2855	20 21.2	0.8345_n
17.5	0.1296	+1.302	1.0123	21 42.0	1.2848	20 17.0	0.8394_n
18.5	0.1323	1.310	1.0144	21 42.4	1.2842	20 12.8	0.8441_n
19.5	0.1351	1.318	1.0164	21 42.9	1.2836	20 8.6	0.8486_n
20.5	0.1378	1.326	1.0183	21 43.3	1.2830	20 4.4	0.8529_n
21.5	0.1405	1.333	1.0203	21 43.8	1.2825	20 0.2	0.8570_n
22.5	0.1433	+1.341	1.0222	21 44.2	1.2819	19 56.0	0.8611_n
23.5	0.1460	1.348	1.0241	21 44.6	1.2814	19 51.7	0.8649_n
24.5	0.1487	1.355	1.0260	21 45.0	1.2808	19 47.5	0.8685_n
25.5	0.1515	1.363	1.0278	21 45.5	1.2803	19 43.3	0.8719_n
26.5	0.1542	1.370	1.0295	21 45.9	1.2798	19 39.0	0.8752_n
27.5	0.1570	+1.377	1.0312	21 46.3	1.2793	19 34.7	0.8783_n
28.5	0.1597	1.384	1.0329	21 46.7	1.2788	19 30.5	0.8813_n
29.5	0.1624	1.391	1.0346	21 47.1	1.2784	19 26.2	0.8842_n
März 1.5	0.1652	1.398	1.0363	21 47.6	1.2779	19 21.9	0.8869_n
2.5	0.1679	1.405	1.0379	21 48.0	1.2775	19 17.6	0.8894_n
3.5	0.1706	+1.412	1.0395	21 48.4	1.2771	19 13.3	0.8918_n
4.5	0.1734	1.419	1.0410	21 48.9	1.2767	19 9.0	0.8940_n
5.5	0.1761	1.426	1.0425	21 49.3	1.2764	19 4.7	0.8961_n
6.5	0.1789	1.432	1.0440	21 49.7	1.2760	19 0.4	0.8980_n
7.5	0.1816	1.439	1.0456	21 50.2	1.2757	18 56.1	0.8998_n
8.5	0.1843	+1.445	1.0470	21 50.6	1.2754	18 51.7	0.9015_n
9.5	0.1871	1.452	1.0484	21 51.1	1.2751	18 47.4	0.9030_n
10.5	0.1898	1.459	1.0498	21 51.5	1.2749	18 43.1	0.9044_n
11.5	0.1926	1.465	1.0512	21 52.0	1.2746	18 38.8	0.9057_n
12.5	0.1953	1.471	1.0526	21 52.5	1.2744	18 34.4	0.9068_n
13.5	0.1980	+1.478	1.0539	21 52.9	1.2743	18 30.1	0.9078_n
14.5	0.2008	1.484	1.0552	21 53.4	1.2741	18 25.8	0.9086_n
15.5	0.2035	1.491	1.0565	21 53.9	1.2740	18 21.4	0.9093_n

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	in 0.ˢ001	in 0.″01	ʰ	″	″	in 0.″01	23° 27′ ″	″	in 0.″01
Febr. 7.5	− 3	+ 9	17.2	+ 5.13	+14.79	− 4	6.42	+5.71	+ 9
8.5	− 7	7	15.3	5.27	14.79	−12	6.43	5.72	+ 5
9.5	−10	6	12.7	5.41	14.80	−16	6.45	5.73	+ 1
10.5	− 9	7	10.2	5.55	14.80	−16	6.46	5.74	− 3
11.5	− 7	8	8.3	5.68	14.80	−12	6.47	5.76	− 7
12.5	− 3	+ 9	6.9	+ 5.82	+14.80	− 6	6.48	+5.77	− 9
13.5	+ 1	9	5.8	5.96	14.80	+ 1	6.49	5.78	− 9
14.5	+ 5	9	4.5	6.10	14.80	+ 9	6.50	5.79	− 9
15.5	+ 9	8	3.1	6.23	14.80	+14	6.51	5.80	− 6
16.5	+11	7	1.3	6.37	14.79	+18	6.52	5.82	− 2
17.5	+11	+ 7	23.1	+ 6.51	+14.78	+17	6.53	+5.83	+ 2
18.5	+ 8	8	20.9	6.65	14.77	+13	6.54	5.84	+ 6
19.5	+ 4	9	19.0	6.79	14.76	+ 6	6.55	5.85	+ 9
20.5	− 2	10	17.5	6.92	14.75	− 3	6.56	5.86	+10
21.5	− 8	11	15.9	7.06	14.74	−14	6.57	5.87	+ 9
22.5	−14	+11	14.4	+ 7.20	+14.72	−22	6.58	+5.88	+ 7
23.5	−17	11	12.8	7.34	14.71	−28	6.58	5.89	+ 2
24.5	−17	11	11.0	7.47	14.69	−27	6.59	5.90	− 3
25.5	−13	11	9.3	7.61	14.68	−21	6.60	5.90	− 7
26.5	− 6	11	7.6	7.75	14.66	−11	6.60	5.91	−10
27.5	+ 1	+10	5.7	+ 7.89	+14.63	+ 2	6.61	+5.92	−10
28.5	+ 8	10	3.8	8.02	14.61	+14	6.62	5.93	− 8
29.5	+14	10	1.7	8.16	14.59	+23	6.62	5.93	− 4
März 1.5	+16	10	23.7	8.30	14.57	+26	6.63	5.94	+ 1
2.5	+15	11	22.0	8.44	14.54	+24	6.63	5.94	+ 6
3.5	+10	+11	20.5	+ 8.57	+14.51	+17	6.63	+5.95	+ 9
4.5	+ 4	11	19.0	8.71	14.49	+ 7	6.63	5.95	+10
5.5	− 2	10	17.5	8.85	14.46	− 3	6.64	5.95	+10
6.5	− 7	8	15.8	8.99	14.43	−11	6.64	5.96	+ 7
7.5	−10	7	13.4	9.12	14.40	−16	6.64	5.96	+ 2
8.5	−10	+ 7	10.9	+ 9.26	+14.37	−17	6.64	+5.96	− 2
9.5	− 8	8	8.9	9.40	14.34	−14	6.64	5.96	− 6
10.5	− 5	9	7.4	9.54	14.31	− 8	6.64	5.96	− 8
11.5	0	9	6.1	9.67	14.28	− 1	6.64	5.96	− 9
12.5	+ 4	9	4.9	9.81	14.25	+ 7	6.63	5.96	− 9
13.5	+ 8	+ 9	3.6	+ 9.95	+14.22	+13	6.63	+5.96	− 7
14.5	+10	7	1.9	10.09	14.18	+17	6.63	5.96	− 4
15.5	+11	7	23.8	10.23	14.15	+17	6.62	5.95	0

Reduktionsgrößen 1916

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i
		s		h m		h m	
März 15.5	0.2035	+1.491	1.0565	21 53.9	1.2740	18 21.4	0.9093$_n$
16.5	0.2062	1.497	1.0578	21 54.4	1.2739	18 17.1	0.9099$_n$
17.5	0.2090	1.503	1.0590	21 54.9	1.2738	18 12.8	0.9104$_n$
18.5	0.2117	1.510	1.0603	21 55.4	1.2737	18 8.4	0.9107$_n$
19.5	0.2145	1.516	1.0615	21 56.0	1.2737	18 4.1	0.9109$_n$
20.5	0.2172	+1.523	1.0628	21 56.5	1.2737	17 59.8	0.9109$_n$
21.5	0.2199	1.529	1.0639	21 57.0	1.2737	17 55.4	0.9108$_n$
22.5	0.2227	1.535	1.0651	21 57.6	1.2737	17 51.1	0.9107$_n$
23.5	0.2254	1.541	1.0663	21 58.1	1.2738	17 46.8	0.9104$_n$
24.5	0.2281	1.548	1.0674	21 58.7	1.2739	17 42.5	0.9099$_n$
25.5	0.2309	+1.554	1.0686	21 59.2	1.2740	17 38.2	0.9092$_n$
26.5	0.2336	1.560	1.0697	21 59.8	1.2741	17 33.9	0.9085$_n$
27.5	0.2364	1.567	1.0709	22 0.4	1.2743	17 29.6	0.9077$_n$
28.5	0.2391	1.573	1.0720	22 1.0	1.2745	17 25.3	0.9067$_n$
29.5	0.2418	1.580	1.0731	22 1.6	1.2747	17 21.0	0.9056$_n$
30.5	0.2446	+1.586	1.0742	22 2.2	1.2749	17 16.7	0.9043$_n$
31.5	0.2473	1.593	1.0753	22 2.9	1.2751	17 12.4	0.9030$_n$
April 1.5	0.2500	1.599	1.0764	22 3.5	1.2754	17 8.1	0.9015$_n$
2.5	0.2528	1.606	1.0775	22 4.1	1.2757	17 3.9	0.8998$_n$
3.5	0.2555	1.612	1.0786	22 4.8	1.2760	16 59.6	0.8981$_n$
4.5	0.2583	+1.619	1.0797	22 5.4	1.2764	16 55.4	0.8961$_n$
5.5	0.2610	1.626	1.0808	22 6.1	1.2767	16 51.2	0.8940$_n$
6.5	0.2637	1.632	1.0819	22 6.8	1.2771	16 46.9	0.8919$_n$
7.5	0.2665	1.639	1.0830	22 7.5	1.2775	16 42.7	0.8895$_n$
8.5	0.2692	1.646	1.0841	22 8.2	1.2779	16 38.5	0.8870$_n$
9.5	0.2720	+1.653	1.0853	22 8.9	1.2783	16 34.3	0.8845$_n$
10.5	0.2747	1.660	1.0864	22 9.6	1.2788	16 30.1	0.8817$_n$
11.5	0.2774	1.667	1.0875	22 10.3	1.2792	16 26.0	0.8788$_n$
12.5	0.2802	1.674	1.0886	22 11.0	1.2797	16 21.8	0.8758$_n$
13.5	0.2829	1.681	1.0898	22 11.8	1.2802	16 17.7	0.8726$_n$
14.5	0.2856	+1.688	1.0909	22 12.5	1.2807	16 13.5	0.8693$_n$
15.5	0.2884	1.695	1.0921	22 13.3	1.2812	16 9.4	0.8658$_n$
16.5	0.2911	1.703	1.0932	22 14.0	1.2817	16 5.3	0.8622$_n$
17.5	0.2939	1.710	1.0944	22 14.8	1.2823	16 1.2	0.8584$_n$
18.5	0.2966	1.718	1.0956	22 15.5	1.2828	15 57.1	0.8544$_n$
19.5	0.2993	+1.725	1.0967	22 16.3	1.2834	15 53.0	0.8503$_n$
20.5	0.3021	1.733	1.0979	22 17.1	1.2840	15 49.0	0.8460$_n$
21.5	0.3048	1.740	1.0992	22 17.8	1.2846	15 44.9	0.8415$_n$

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	in $0^s.001$	in $0''.01$	h	$''$	$''$	in $0''.01$	23° 27′	$''$	in $0''.01$
März 15.5	+11	+ 7	23.8	+10.23	+14.15	+17	6.62	+5.95	0
16.5	+ 9	7	21.6	10.36	14.12	+15	6.62	5.95	+ 4
17.5	+ 5	8	19.7	10.50	14.08	+ 9	6.61	5.95	+ 8
18.5	0	10	18.0	10.64	14.05	0	6.61	5.94	+10
19.5	− 6	10	16.5	10.78	14.01	−10	6.60	5.94	+10
20.5	−12	+11	15.0	+10.91	+13.98	−19	6.59	+5.93	+ 7
21.5	−15	11	13.3	11.05	13.94	−25	6.58	5.92	+ 4
22.5	−16	11	11.6	11.19	13.91	−27	6.58	5.91	− 1
23.5	−14	11	9.8	11.33	13.88	−22	6.57	5.91	− 6
24.5	− 8	11	8.0	11.46	13.84	−13	6.56	5.90	− 9
25.5	− 1	+11	6.2	+11.60	+13.81	− 1	6.54	+5.89	−11
26.5	+ 7	10	4.3	11.74	13.77	+11	6.53	5.88	− 9
27.5	+13	10	2.3	11.88	13.74	+21	6.52	5.87	− 6
28.5	+16	10	0.3	12.01	13.71	+26	6.51	5.85	− 1
29.5	+16	11	22.6	12.15	13.68	+25	6.49	5.84	+ 4
30.5	+12	+11	20.9	+12.29	+13.64	+19	6.48	+5.83	+ 8
31.5	+ 6	11	19.4	12.43	13.61	+10	6.47	5.82	+10
April 1.5	0	10	17.9	12.56	13.58	− 1	6.45	5.80	+10
2.5	− 6	9	16.2	12.70	13.55	−10	6.44	5.79	+ 8
3.5	−10	7	14.1	12.84	13.52	−16	6.42	5.77	+ 4
4.5	−11	+ 7	11.6	+12.98	+13.49	−18	6.40	+5.76	− 1
5.5	− 9	8	9.5	13.12	13.46	−15	6.38	5.74	− 5
6.5	− 6	9	7.9	13.25	13.44	−10	6.37	5.72	− 8
7.5	− 2	9	6.5	13.39	13.41	− 3	6.35	5.71	− 9
8.5	+ 2	9	5.3	13.53	13.38	+ 4	6.33	5.69	− 9
9.5	+ 7	+ 9	4.0	+13.67	+13.36	+11	6.31	+5.67	− 8
10.5	+ 9	8	2.5	13.80	13.33	+15	6.29	5.65	− 5
11.5	+10	7	0.5	13.94	13.31	+17	6.27	5.63	− 1
12.5	+ 9	7	22.1	14.08	13.29	+15	6.25	5.61	+ 3
13.5	+ 6	8	20.0	14.22	13.27	+10	6.22	5.59	+ 7
14.5	+ 1	+ 9	18.3	+14.35	+13.25	+ 2	6.20	+5.57	+ 9
15.5	− 5	10	16.9	14.49	13.23	− 8	6.18	5.55	+10
16.5	−10	11	15.4	14.63	13.21	−17	6.16	5.53	+ 8
17.5	−15	11	13.8	14.77	13.20	−24	6.13	5.51	+ 5
18.5	−16	11	12.2	14.90	13.18	−27	6.11	5.48	+ 0
19.5	−15	+10	10.4	+15.04	+13.16	−24	6.09	+5.46	− 4
20.5	−10	10	8.5	15.18	13.15	−16	6.06	5.44	− 8
21.5	− 3	11	6.6	15.32	13.14	− 4	6.04	5.42	−10

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i	i
				h m		h m		
April 21.5	0.3048	+1.740	1.0992	22 17.8	1.2846	15 44.9	0.8415_n	
22.5	0.3075	1.748	1.1004	22 18.6	1.2852	15 40.9	0.8370_n	
23.5	0.3103	1.756	1.1016	22 19.4	1.2858	15 36.8	0.8321_n	
24.5	0.3130	1.764	1.1029	22 20.2	1.2864	15 32.8	0.8272_n	
25.5	0.3158	1.772	1.1041	22 21.0	1.2870	15 28.8	0.8220_n	
26.5	0.3185	+1.780	1.1054	22 21.8	1.2876	15 24.9	0.8166_n	
27.5	0.3212	1.788	1.1067	22 22.6	1.2882	15 20.9	0.8111_n	
28.5	0.3240	1.796	1.1080	22 23.4	1.2889	15 16.9	0.8054_n	
29.5	0.3267	1.805	1.1094	22 24.2	1.2895	15 13.0	0.7995_n	
30.5	0.3294	1.813	1.1107	22 25.0	1.2901	15 9.1	0.7934_n	
Mai 1.5	0.3322	+1.822	1.1121	22 25.8	1.2908	15 5.1	0.7870_n	
2.5	0.3349	1.830	1.1135	22 26.6	1.2914	15 1.2	0.7805_n	
3.5	0.3377	1.839	1.1149	22 27.4	1.2920	14 57.4	0.7737_n	
4.5	0.3404	1.848	1.1163	22 28.2	1.2927	14 53.5	0.7666_n	
5.5	0.3431	1.856	1.1177	22 29.0	1.2933	14 49.6	0.7594_n	
6.5	0.3459	+1.865	1.1192	22 29.8	1.2939	14 45.8	0.7519_n	
7.5	0.3486	1.874	1.1206	22 30.6	1.2945	14 41.9	0.7442_n	
8.5	0.3514	1.883	1.1221	22 31.4	1.2952	14 38.1	0.7362_n	
9.5	0.3541	1.893	1.1236	22 32.2	1.2958	14 34.3	0.7279_n	
10.5	0.3568	1.902	1.1252	22 33.0	1.2964	14 30.5	0.7192_n	
11.5	0.3596	+1.911	1.1267	22 33.8	1.2970	14 26.7	0.7105_n	−5.134
12.5	0.3623	1.921	1.1282	22 34.6	1.2976	14 22.9	0.7012_n	5.026
13.5	0.3650	1.930	1.1298	22 35.3	1.2982	14 19.2	0.6918_n	4.918
14.5	0.3678	1.940	1.1314	22 36.1	1.2988	14 15.4	0.6820_n	4.809
15.5	0.3705	1.949	1.1330	22 36.9	1.2994	14 11.7	0.6719_n	4.698
16.5	0.3733	+1.959	1.1347	22 37.6	1.2999	14 8.0	0.6613_n	−4.585
17.5	0.3760	1.969	1.1363	22 38.4	1.3005	14 4.2	0.6503_n	4.470
18.5	0.3787	1.979	1.1380	22 39.1	1.3011	14 0.5	0.6390_n	4.355
19.5	0.3815	1.989	1.1397	22 39.9	1.3016	13 56.8	0.6274_n	4.240
20.5	0.3842	1.999	1.1413	22 40.6	1.3021	13 53.2	0.6151_n	4.122
21.5	0.3869	+2.009	1.1430	22 41.3	1.3026	13 49.5	0.6024_n	−4.003
22.5	0.3897	2.019	1.1448	22 42.0	1.3032	13 45.8	0.5893_n	3.884
23.5	0.3924	2.030	1.1465	22 42.7	1.3037	13 42.2	0.5755_n	3.763
24.5	0.3952	2.040	1.1483	22 43.4	1.3041	13 38.5	0.5613_n	3.642
25.5	0.3979	2.050	1.1500	22 44.1	1.3046	13 34.9	0.5464_n	3.519
26.5	0.4006	+2.061	1.1518	22 44.8	1.3051	13 31.3	0.5308_n	−3.395
27.5	0.4034	2.071	1.1535	22 45.5	1.3055	13 27.7	0.5147_n	3.271
28.5	0.4061	2.082	1.1553	22 46.1	1.3059	13 24.0	0.4978_n	3.146

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	$\varDelta\psi$	$\varDelta\psi'$	Wahre Schiefe	$\varDelta\varepsilon$	$\varDelta\varepsilon'$
	in 0.001 s	in 0.01 "	h	"	"	in 0.01 "	23° 27' "	"	in 0.01 "
April 21.5	− 3	+11	6.6	+15.32	+13.14	− 4	6.04	+5.42	−10
22.5	+ 5	11	4.7	15.45	13.13	+ 8	6.01	5.39	−10
23.5	+12	10	2.8	15.59	13.12	+20	5.99	5.37	− 7
24.5	+16	11	0.9	15.73	13.11	+26	5.96	5.34	− 3
25.5	+17	11	23.2	15.87	13.10	+28	5.94	5.32	+ 2
26.5	+14	+12	21.5	+16.00	+13.10	+23	5.91	+5.29	+ 7
27.5	+ 9	11	20.0	16.14	13.09	+14	5.88	5.27	+10
28.5	+ 2	11	18.4	16.28	13.09	+ 3	5.86	5.24	+10
29.5	− 4	9	16.8	16.42	13.09	− 7	5.83	5.22	+ 9
30.5	− 9	8	14.8	16.56	13.09	−14	5.81	5.19	+ 5
Mai 1.5	−11	+ 7	12.4	+16.69	+13.09	−18	5.78	+5.17	+ 1
2.5	−10	8	10.1	16.83	13.09	−17	5.75	5.14	− 4
3.5	− 7	8	8.4	16.97	13.10	−12	5.73	5.12	− 7
4.5	− 3	9	6.9	17.11	13.10	− 6	5.70	5.09	− 9
5.5	+ 1	9	5.7	17.24	13.11	+ 2	5.67	5.07	− 9
6.5	+ 5	+ 9	4.4	+17.38	+13.12	+ 9	5.65	+5.04	− 8
7.5	+ 8	8	3.0	17.52	13.13	+14	5.62	5.02	− 6
8.5	+10	7	1.1	17.66	13.14	+16	5.59	4.99	− 2
9.5	+10	6	22.9	17.79	13.15	+16	5.57	4.97	+ 2
10.5	+ 7	7	20.6	17.93	13.17	+11	5.54	4.94	+ 6
11.5	+ 2	+ 9	18.6	+18.07	+13.18	+ 4	5.51	+4.92	+ 8
12.5	− 3	10	17.1	18.21	13.20	− 6	5.49	4.89	+10
13.5	− 9	11	15.7	18.34	13.22	−16	5.46	4.87	+ 9
14.5	−14	11	14.2	18.48	13.23	−24	5.44	4.84	+ 6
15.5	−17	11	12.7	18.62	13.25	−28	5.41	4.82	+ 2
16.5	−16	+11	11.0	+18.76	+13.28	−26	5.39	+4.80	− 3
17.5	−12	11	9.2	18.89	13.30	−20	5.36	4.77	− 7
18.5	− 5	11	7.3	19.03	13.32	− 9	5.34	4.75	−10
19.5	+ 3	11	5.3	19.17	13.35	+ 4	5.31	4.72	−10
20.5	+10	11	3.4	19.31	13.38	+17	5.29	4.70	− 8
21.5	+15	+11	1.5	+19.45	+13.40	+25	5.26	+4.68	− 4
22.5	+18	11	23.7	19.58	13.43	+29	5.24	4.66	+ 1
23.5	+16	12	22.1	19.72	13.46	+26	5.22	4.63	+ 6
24.5	+11	12	20.6	19.86	13.49	+19	5.19	4.61	+ 9
25.5	+ 5	11	19.2	20.00	13.53	+ 8	5.17	4.59	+10
26.5	− 2	+ 9	17.6	+20.13	+13.56	− 3	5.15	+4.57	+ 9
27.5	− 7	8	15.7	20.27	13.60	−11	5.13	4.55	+ 6
28.5	−10	7	13.2	20.41	13.63	−16	5.11	4.53	+ 2

Mittl. Zeit Greenwich		*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
			s		h m		h m		"
Mai	28.5	0.4061	+2.082	1.1553	22 46.1	1.3059	13 24.0	0.4978$_n$	−3.146
	29.5	0.4088	2.092	1.1571	22 46.8	1.3063	13 20.4	0.4800$_n$	3.020
	30.5	0.4116	2.103	1.1589	22 47.4	1.3067	13 16.9	0.4613$_n$	2.893
	31.5	0.4143	2.114	1.1608	22 48.1	1.3071	13 13.3	0.4417$_n$	2.765
Juni	1.5	0.4171	2.125	1.1626	22 48.7	1.3075	13 9.7	0.4209$_n$	2.636
	2.5	0.4198	+2.135	1.1645	22 49.3	1.3078	13 6.1	0.3991$_n$	−2.507
	3.5	0.4225	2.146	1.1663	22 49.9	1.3082	13 2.6	0.3762$_n$	2.378
	4.5	0.4253	2.157	1.1681	22 50.5	1.3085	12 59.0	0.3516$_n$	2.247
	5.5	0.4280	2.168	1.1700	22 51.0	1.3088	12 55.4	0.3255$_n$	2.116
	6.5	0.4308	2.179	1.1719	22 51.6	1.3091	12 51.9	0.2975$_n$	1.984
	7.5	0.4335	+2.190	1.1737	22 52.2	1.3093	12 48.4	0.2676$_n$	−1.852
	8.5	0.4362	2.201	1.1757	22 52.7	1.3096	12 44.8	0.2353$_n$	1.719
	9.5	0.4390	2.213	1.1776	22 53.2	1.3098	12 41.3	0.2003$_n$	1.586
	10.5	0.4417	2.224	1.1795	22 53.7	1.3100	12 37.8	0.1623$_n$	1.453
	11.5	0.4444	2.235	1.1814	22 54.2	1.3102	12 34.2	0.1202$_n$	1.319
	12.5	0.4472	+2.246	1.1833	22 54.7	1.3104	12 30.7	0.0737$_n$	−1.185
	13.5	0.4499	2.257	1.1852	22 55.2	1.3105	12 27.2	0.0212$_n$	1.050
	14.5	0.4527	2.269	1.1870	22 55.7	1.3107	12 23.7	9.9614$_n$	0.915
	15.5	0.4554	2.280	1.1890	22 56.2	1.3108	12 20.2	9.8921$_n$	0.780
	16.5	0.4581	2.291	1.1909	22 56.6	1.3109	12 16.7	9.8096$_n$	0.645
	17.5	0.4609	+2.302	1.1928	22 57.0	1.3110	12 13.2	9.7076$_n$	−0.510
	18.5	0.4636	2.314	1.1947	22 57.5	1.3110	12 9.7	9.5740$_n$	0.375
	19.5	0.4663	2.325	1.1966	22 57.9	1.3111	12 6.2	9.3784$_n$	0.239
	20.5	0.4691	2.336	1.1985	22 58.3	1.3111	12 2.7	9.0128$_n$	−0.103
	21.5	0.4718	2.347	1.2004	22 58.7	1.3111	11 59.2	8.5051	+0.032
	22.5	0.4746	+2.359	1.2023	22 59.0	1.3111	11 55.7	9.2253	+0.168
	23.5	0.4773	2.370	1.2042	22 59.4	1.3111	11 52.2	9.4829	0.304
	24.5	0.4800	2.382	1.2060	22 59.8	1.3110	11 48.7	9.6425	0.439
	25.5	0.4828	2.393	1.2079	23 0.1	1.3109	11 45.2	9.7589	0.574
	26.5	0.4855	2.404	1.2098	23 0.4	1.3108	11 41.7	9.8506	0.709
	27.5	0.4882	+2.415	1.2117	23 0.8	1.3107	11 38.1	9.9263	+0.844
	28.5	0.4910	2.427	1.2135	23 1.1	1.3106	11 34.6	9.9908	0.979
	29.5	0.4937	2.438	1.2154	23 1.4	1.3105	11 31.1	0.0469	1.114
	30.5	0.4965	2.449	1.2172	23 1.7	1.3103	11 27.6	0.0962	1.248
Juli	1.5	0.4992	2.460	1.2191	23 1.9	1.3101	11 24.1	0.1402	1.381
	2.5	0.5019	+2.471	1.2209	23 2.2	1.3099	11 20.6	0.1801	+1.514
	3.5	0.5047	2.483	1.2227	23 2.4	1.3097	11 17.1	0.2167	1.647
	4.5	0.5074	2.494	1.2246	23 2.7	1.3095	11 13.6	0.2504	1.780

Mittl. Zeit Greenwich		f'	g'	G'	Allgemeine Präzession seit 1916.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
		in 0.ˢ001	in 0.″01				in 0.″01	23° 27′		in 0.″01
Mai	28.5	−10	+ 7	13.ʰ2	+20.″41	+13.″63	−16	5.″11	+4.″53	+ 2
	29.5	−10	7	10.7	20.55	13.67	−17	5.08	4.51	− 2
	30.5	− 8	8	8.7	20.68	13.70	−13	5.06	4.49	− 6
	31.5	− 4	9	7.2	20.82	13.74	− 7	5.04	4.47	− 9
Juni	1.5	0	9	6.0	20.96	13.78	0	5.02	4.45	− 9
	2.5	+ 5	+ 9	4.7	+21.10	+13.82	+ 8	5.00	+4.44	− 9
	3.5	+ 8	8	3.4	21.23	13.86	+13	4.99	4.42	− 6
	4.5	+10	7	1.7	21.37	13.90	+16	4.97	4.40	− 3
	5.5	+10	6	23.6	21.51	13.95	+16	4.95	4.38	+ 1
	6.5	+ 8	7	21.2	21.65	13.99	+13	4.93	4.37	+ 5
	7.5	+ 4	+ 8	19.1	+21.78	+14.03	+ 6	4.92	+4.35	+ 8
	8.5	− 2	9	17.5	21.92	14.08	− 3	4.90	4.34	+ 9
	9.5	− 8	11	16.0	22.06	14.12	−13	4.88	4.32	+ 9
	10.5	−14	11	14.6	22.20	14.17	−23	4.87	4.31	+ 7
	11.5	−17	12	13.1	22.33	14.21	−29	4.85	4.30	+ 3
	12.5	−18	+12	11.6	+22.47	+14.26	−29	4.84	+4.28	− 1
	13.5	−15	11	10.0	22.61	14.30	−25	4.83	4.27	− 6
	14.5	− 9	11	8.1	22.75	14.35	−15	4.81	4.26	− 9
	15.5	− 1	10	6.3	22.89	14.40	− 2	4.80	4.25	−10
	16.5	+ 7	10	4.2	23.02	14.44	+11	4.79	4.24	− 9
	17.5	+14	+11	2.2	+23.16	+14.49	+22	4.78	+4.23	− 6
	18.5	+17	11	0.3	23.30	14.54	+28	4.77	4.22	− 1
	19.5	+17	12	22.7	23.44	14.58	+28	4.76	4.21	+ 4
	20.5	+13	12	21.1	23.57	14.63	+22	4.75	4.20	+ 8
	21.5	+ 8	11	19.7	23.71	14.68	+13	4.74	4.19	+10
	22.5	+ 1	+10	18.3	+23.85	+14.73	+ 2	4.73	+4.19	+10
	23.5	− 5	8	16.5	23.99	14.77	− 8	4.72	4.18	+ 7
	24.5	− 8	6	14.2	24.12	14.82	−14	4.72	4.18	+ 3
	25.5	−10	6	11.5	24.26	14.87	−16	4.71	4.17	− 1
	26.5	− 8	7	9.1	24.40	14.92	−13	4.70	4.17	− 5
	27.5	− 5	+ 9	7.4	+24.54	+14.96	− 8	4.70	+4.16	− 8
	28.5	0	9	6.2	24.67	15.01	− 1	4.69	4.16	− 9
	29.5	+ 4	9	4.9	24.81	15.05	+ 6	4.69	4.16	− 9
	30.5	+ 8	9	3.6	24.95	15.10	+13	4.69	4.15	− 7
Juli	1.5	+10	8	2.2	25.09	15.15	+17	4.68	4.15	− 4
	2.5	+11	+ 7	0.2	+25.22	+15.19	+18	4.68	+4.15	0
	3.5	+ 9	7	22.0	25.36	15.23	+15	4.68	4.15	+ 3
	4.5	+ 6	8	19.8	25.50	15.28	+ 9	4.68	4.15	+ 7

Mittl. Zeit Greenwich		t	f	log g	G	log h	H	log i	i
			s		h m		h m		"
Juli	4.5	0.5074	+2.494	1.2246	23 2.7	1.3095	11 13.6	0.2504	+1.780
	5.5	0.5102	2.505	1.2264	23 2.9	1.3092	11 10.0	0.2815	1.912
	6.5	0.5129	2.516	1.2282	23 3.2	1.3089	11 6.5	0.3105	2.044
	7.5	0.5156	2.527	1.2300	23 3.4	1.3086	11 3.0	0.3375	2.175
	8.5	0.5184	2.538	1.2317	23 3.6	1.3083	10 59.4	0.3627	2.305
	9.5	0.5211	+2.549	1.2335	23 3.8	1.3080	10 55.9	0.3865	+2.435
	10.5	0.5238	2.559	1.2353	23 4.0	1.3077	10 52.3	0.4089	2.564
	11.5	0.5266	2.570	1.2370	23 4.2	1.3073	10 48.8	0.4301	2.692
	12.5	0.5293	2.581	1.2387	23 4.3	1.3070	10 45.2	0.4501	2.819
	13.5	0.5321	2.592	1.2404	23 4.5	1.3066	10 41.6	0.4692	2.946
	14.5	0.5348	+2.602	1.2421	23 4.6	1.3062	10 38.0	0.4874	+3.072
	15.5	0.5375	2.613	1.2439	23 4.8	1.3057	10 34.5	0.5049	3.198
	16.5	0.5403	2.623	1.2455	23 4.9	1.3053	10 30.9	0.5214	3.322
	17.5	0.5430	2.634	1.2472	23 5.1	1.3049	10 27.3	0.5372	3.445
	18.5	0.5457	2.644	1.2489	23 5.2	1.3044	10 23.7	0.5524	3.568
	19.5	0.5485	+2.654	1.2505	23 5.3	1.3039	10 20.1	0.5670	+3.690
	20.5	0.5512	2.665	1.2521	23 5.4	1.3035	10 16.4	0.5809	3.810
	21.5	0.5540	2.675	1.2537	23 5.5	1.3030	10 12.8	0.5943	3.929
	22.5	0.5567	2.685	1.2553	23 5.6	1.3025	10 9.2	0.6072	4.048
	23.5	0.5594	2.695	1.2569	23 5.7	1.3019	10 5.5	0.6196	4.165
	24.5	0.5622	+2.705	1.2585	23 5.8	1.3014	10 1.8	0.6315	+4.281
	25.5	0.5649	2.715	1.2600	23 5.9	1.3009	9 58.2	0.6430	4.395
	26.5	0.5676	2.725	1.2615	23 6.0	1.3003	9 54.5	0.6541	4.509
	27.5	0.5704	2.734	1.2631	23 6.1	1.2998	9 50.8	0.6648	4.622
	28.5	0.5731	2.744	1.2646	23 6.1	1.2992	9 47.1	0.6752	4.734
	29.5	0.5759	+2.754	1.2661	23 6.2	1.2986	9 43.4	0.6851	
	30.5	0.5786	2.763	1.2675	23 6.2	1.2980	9 39.7	0.6948	
	31.5	0.5813	2.773	1.2690	23 6.3	1.2974	9 35.9	0.7041	
Aug.	1.5	0.5841	2.782	1.2704	23 6.3	1.2968	9 32.2	0.7131	
	2.5	0.5868	2.791	1.2718	23 6.4	1.2962	9 28.4	0.7217	
	3.5	0.5896	+2.800	1.2732	23 6.4	1.2956	9 24.7	0.7302	
	4.5	0.5923	2.810	1.2746	23 6.5	1.2950	9 20.9	0.7383	
	5.5	0.5950	2.819	1.2760	23 6.5	1.2944	9 17.1	0.7462	
	6.5	0.5978	2.827	1.2774	23 6.6	1.2938	9 13.3	0.7537	
	7.5	0.6005	2.836	1.2787	23 6.6	1.2931	9 9.5	0.7612	
	8.5	0.6032	+2.845	1.2800	23 6.6	1.2925	9 5.6	0.7683	
	9.5	0.6060	2.854	1.2813	23 6.7	1.2919	9 1.8	0.7752	
	10.5	0.6087	2.862	1.2826	23 6.7	1.2912	8 57.9	0.7819	

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
	in 0.001 s	in 0.01"				in 0.01"	23° 27'		in 0.01"
Juli 4.5	+ 6	+ 8	19.8 h	+25.50"	+15.28"	+ 9	4.68"	+4.15"	+ 7
5.5	0	9	18.0	25.64	15.32	0	4.68	4.15	+ 9
6.5	− 6	10	16.5	25.78	15.37	−10	4.68	4.15	+ 9
7.5	−12	11	15.0	25.91	15.41	−20	4.68	4.15	+ 8
8.5	−17	12	13.6	26.05	15.45	−28	4.68	4.15	+ 5
9.5	−19	+12	12.1	+26.19	+15.49	−31	4.68	+4.16	0
10.5	−17	12	10.6	26.33	15.53	−28	4.68	4.16	− 4
11.5	−12	11	9.0	26.46	15.57	−20	4.68	4.16	− 8
12.5	− 5	11	7.2	26.60	15.60	− 8	4.68	4.17	−10
13.5	+ 3	10	5.2	26.74	15.64	+ 5	4.69	4.17	−10
14.5	+10	+10	3.1	+26.88	+15.68	+17	4.69	+4.18	− 7
15.5	+15	10	1.0	27.01	15.71	+25	4.69	4.18	− 3
16.5	+17	11	23.1	27.15	15.75	+27	4.70	4.19	+ 2
17.5	+14	12	21.6	27.29	15.78	+24	4.70	4.19	+ 7
18.5	+ 9	12	20.1	27.43	15.81	+16	4.71	4.20	+10
19.5	+ 3	+10	18.8	+27.56	+15.85	+ 5	4.71	+4.21	+10
20.5	− 3	9	17.2	27.70	15.88	− 5	4.72	4.21	+ 8
21.5	− 7	7	15.1	27.84	15.90	−12	4.73	4.22	+ 5
22.5	− 9	6	12.3	27.98	15.93	−15	4.73	4.23	0
23.5	− 8	7	9.6	28.11	15.96	−14	4.74	4.24	− 4
24.5	− 5	+ 8	7.7	+28.25	+15.98	− 9	4.75	+4.25	− 7
25.5	− 1	9	6.3	28.39	16.01	− 2	4.76	4.26	− 9
26.5	+ 3	10	5.2	28.53	16.03	+ 5	4.76	4.26	− 9
27.5	+ 7	9	3.9	28.66	16.05	+12	4.77	4.27	− 8
28.5	+10	9	2.5	28.80	16.07	+17	4.78	4.28	− 5
29.5	+11	+ 8	0.8	+28.94	+16.09	+19	4.79	+4.29	− 1
30.5	+10	7	22.7	29.08	16.11	+17	4.80	4.30	+ 2
31.5	+ 8	8	20.7	29.22	16.13	+12	4.81	4.31	+ 6
Aug. 1.5	+ 3	9	18.8	29.35	16.14	+ 4	4.81	4.32	+ 8
2.5	− 3	10	17.1	29.49	16.16	− 6	4.82	4.33	+ 9
3.5	−10	+11	15.6	+29.63	+16.17	−16	4.83	+4.34	+ 9
4.5	−15	11	14.1	29.77	16.18	−25	4.84	4.35	+ 6
5.5	−18	12	12.6	29.90	16.19	−29	4.85	4.36	+ 2
6.5	−18	12	11.1	30.04	16.20	−29	4.86	4.38	− 3
7.5	−14	12	9.6	30.18	16.21	−24	4.87	4.39	− 7
8.5	− 8	+11	7.9	+30.32	+16.21	−13	4.88	+4.40	−10
9.5	0	10	6.1	30.45	16.21	− 1	4.89	4.41	−10
10.5	+ 7	9	4.1	30.59	16.22	+11	4.90	4.42	− 8

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i
Aug. 10.5	0.6087	+2.862 s	1.2826	23 h 6.7 m	1.2912	8 h 57.9 m	0.7819
11.5	0.6115	2.871	1.2839	23 6.7	1.2906	8 54.1	0.7883
12.5	0.6142	2.879	1.2852	23 6.8	1.2900	8 50.2	0.7945
13.5	0.6169	2.887	1.2864	23 6.8	1.2894	8 46.3	0.8006
14.5	0.6197	2.896	1.2876	23 6.8	1.2888	8 42.4	0.8064
15.5	0.6224	+2.904	1.2889	23 6.8	1.2881	8 38.5	0.8120
16.5	0.6251	2.912	1.2901	23 6.9	1.2875	8 34.6	0.8174
17.5	0.6279	2.920	1.2912	23 6.9	1.2869	8 30.6	0.8227
18.5	0.6306	2.928	1.2924	23 6.9	1.2863	8 26.7	0.8278
19.5	0.6334	2.936	1.2936	23 7.0	1.2857	8 22.7	0.8327
20.5	0.6361	+2.944	1.2947	23 7.0	1.2851	8 18.7	0.8374
21.5	0.6388	2.951	1.2958	23 7.0	1.2845	8 14.7	0.8419
22.5	0.6416	2.959	1.2969	23 7.0	1.2839	8 10.7	0.8463
23.5	0.6443	2.966	1.2980	23 7.1	1.2834	8 6.7	0.8506
24.5	0.6470	2.974	1.2991	23 7.1	1.2828	8 2.7	0.8547
25.5	0.6498	+2.981	1.3001	23 7.2	1.2823	7 58.7	0.8585
26.5	0.6525	2.988	1.3012	23 7.2	1.2817	7 54.6	0.8622
27.5	0.6553	2.996	1.3022	23 7.2	1.2812	7 50.5	0.8659
28.5	0.6580	3.003	1.3032	23 7.3	1.2807	7 46.5	0.8693
29.5	0.6607	3.010	1.3042	23 7.3	1.2802	7 42.4	0.8726
30.5	0.6635	+3.017	1.3052	23 7.4	1.2797	7 38.3	0.8758
31.5	0.6662	3.024	1.3062	23 7.4	1.2792	7 34.2	0.8787
Sept. 1.5	0.6689	3.031	1.3072	23 7.5	1.2788	7 30.1	0.8816
2.5	0.6717	3.038	1.3081	23 7.6	1.2783	7 25.9	0.8843
3.5	0.6744	3.044	1.3091	23 7.6	1.2779	7 21.8	0.8869
4.5	0.6772	+3.051	1.3100	23 7.7	1.2775	7 17.6	0.8894
5.5	0.6799	3.058	1.3109	23 7.8	1.2771	7 13.5	0.8917
6.5	0.6826	3.065	1.3118	23 7.8	1.2768	7 9.3	0.8939
7.5	0.6854	3.071	1.3127	23 7.9	1.2764	7 5.1	0.8959
8.5	0.6881	3.078	1.3136	23 8.0	1.2761	7 0.9	0.8978
9.5	0.6909	+3.084	1.3145	23 8.1	1.2758	6 56.7	0.8995
10.5	0.6936	3.091	1.3153	23 8.2	1.2755	6 52.5	0.9012
11.5	0.6963	3.097	1.3162	23 8.3	1.2752	6 48.3	0.9027
12.5	0.6991	3.103	1.3170	23 8.4	1.2749	6 44.1	0.9041
13.5	0.7018	3.110	1.3179	23 8.5	1.2747	6 39.9	0.9054
14.5	0.7045	+3.116	1.3187	23 8.7	1.2745	6 35.7	0.9065
15.5	0.7073	3.122	1.3195	23 8.8	1.2743	6 31.4	0.9075
16.5	0.7100	3.129	1.3203	23 8.9	1.2742	6 27.2	0.9084

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
	in 0.ˢ001	in 0.″01	h	″	″	in 0.″01	23° 27′	″	in 0.″01
Aug. 10.5	+ 7	+ 9	4.1	+30.59	+16.22	+11	4.90	+4.42	− 8
11.5	+13	9	1.8	30.73	16.22	+21	4.91	4.43	− 4
12.5	+15	10	23.7	30.87	16.22	+25	4.92	4.44	+ 1
13.5	+14	11	21.9	31.00	16.22	+23	4.92	4.45	+ 6
14.5	+10	11	20.4	31.14	16.22	+17	4.93	4.46	+ 9
15.5	+ 4	+11	19.0	+31.28	+16.21	+ 7	4.94	+4.47	+10
16.5	− 2	9	17.6	31.42	16.21	− 3	4.95	4.48	+ 9
17.5	− 6	7	15.8	31.55	16.20	−10	4.96	4.49	+ 6
18.5	− 9	6	13.2	31.69	16.19	−14	4.97	4.50	+ 2
19.5	− 9	6	10.3	31.83	16.18	−14	4.98	4.51	− 3
20.5	− 6	+ 8	8.2	+31.97	+16.17	−10	4.99	+4.52	− 6
21.5	− 2	9	6.6	32.10	16.16	− 4	4.99	4.53	− 9
22.5	+ 2	10	5.4	32.24	16.15	+ 4	5.00	4.54	− 9
23.5	+ 7	10	4.2	32.38	16.13	+11	5.01	4.55	− 8
24.5	+10	9	2.9	32.52	16.12	+16	5.02	4.55	− 6
25.5	+12	+ 8	1.3	+32.66	+16.10	+19	5.02	+4.56	− 3
26.5	+11	8	23.4	32.79	16.08	+19	5.03	4.57	+ 1
27.5	+ 9	8	21.5	32.93	16.06	+15	5.03	4.58	+ 5
28.5	+ 5	8	19.5	33.07	16.04	+ 8	5.04	4.58	+ 8
29.5	− 1	9	17.8	33.21	16.02	− 1	5.04	4.59	+ 9
30.5	− 7	+10	16.2	+33.34	+16.00	−11	5.05	+4.59	+ 9
31.5	−12	11	14.7	33.48	15.97	−20	5.05	4.60	+ 7
Sept. 1.5	−16	11	13.1	33.62	15.95	−27	5.06	4.60	+ 3
2.5	−18	12	11.6	33.76	15.92	−29	5.06	4.61	− 1
3.5	−15	11	10.0	33.89	15.89	−25	5.06	4.61	− 6
4.5	−10	+11	8.4	+34.03	+15.87	−16	5.07	+4.62	− 9
5.5	− 3	11	6.7	34.17	15.84	− 5	5.07	4.62	−10
6.5	+ 5	10	4.8	34.31	15.81	+ 7	5.07	4.62	− 9
7.5	+11	9	2.6	34.44	15.78	+17	5.07	4.63	− 6
8.5	+14	9	0.4	34.58	15.75	+23	5.07	4.63	− 1
9.5	+14	+10	22.3	+34.72	+15.72	+23	5.07	+4.63	+ 4
10.5	+11	11	20.7	34.86	15.69	+18	5.07	4.63	+ 8
11.5	+ 5	11	19.3	34.99	15.65	+ 9	5.07	4.63	+10
12.5	− 1	10	17.8	35.13	15.62	− 1	5.07	4.63	+10
13.5	− 6	8	16.1	35.27	15.59	−10	5.06	4.63	+ 7
14.5	− 9	+ 7	13.9	+35.41	+15.55	−15	5.06	+4.63	+ 3
15.5	− 9	6	11.3	35.55	15.52	−16	5.06	4.62	− 1
16.5	− 7	7	8.8	35.68	15.48	−12	5.05	4.62	− 5

Reduktionsgrößen 1916

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i
		s		h m		h m	
Sept. 16.5	0.7100	+3.129	1.3203	23 8.9	1.2742	6 27.2	0.9084
17.5	0.7128	3.135	1.3212	23 9.0	1.2740	6 22.9	0.9091
18.5	0.7155	3.141	1.3220	23 9.2	1.2739	6 18.7	0.9097
19.5	0.7182	3.147	1.3228	23 9.3	1.2738	6 14.4	0.9102
20.5	0.7210	3.154	1.3236	23 9.5	1.2737	6 10.2	0.9106
21.5	0.7237	+3.160	1.3244	23 9.6	1.2737	6 5.9	0.9108
22.5	0.7264	3.166	1.3251	23 9.8	1.2737	6 1.6	0.9109
23.5	0.7292	3.172	1.3259	23 10.0	1.2737	5 57.4	0.9109
24.5	0.7319	3.178	1.3267	23 10.2	1.2737	5 53.1	0.9108
25.5	0.7347	3.184	1.3274	23 10.4	1.2737	5 48.8	0.9105
26.5	0.7374	+3.191	1.3282	23 10.6	1.2738	5 44.5	0.9101
27.5	0.7401	3.197	1.3289	23 10.7	1.2739	5 40.3	0.9096
28.5	0.7429	3.203	1.3297	23 10.9	1.2740	5 36.0	0.9089
29.5	0.7456	3.209	1.3304	23 11.2	1.2742	5 31.7	0.9081
30.5	0.7483	3.216	1.3312	23 11.4	1.2744	5 27.4	0.9072
Okt. 1.5	0.7511	+3.222	1.3320	23 11.6	1.2746	5 23.2	0.9062
2.5	0.7538	3.228	1.3327	23 11.8	1.2748	5 18.9	0.9050
3.5	0.7566	3.235	1.3335	23 12.1	1.2750	5 14.6	0.9037
4.5	0.7593	3.241	1.3342	23 12.3	1.2753	5 10.3	0.9023
5.5	0.7620	3.247	1.3350	23 12.5	1.2756	5 6.1	0.9007
6.5	0.7648	+3.254	1.3357	23 12.8	1.2759	5 1.8	0.8989
7.5	0.7675	3.260	1.3365	23 13.1	1.2762	4 57.6	0.8971
8.5	0.7703	3.267	1.3373	23 13.3	1.2765	4 53.3	0.8951
9.5	0.7730	3.273	1.3380	23 13.6	1.2769	4 49.0	0.8930
10.5	0.7757	3.280	1.3388	23 13.9	1.2773	4 44.8	0.8907
11.5	0.7785	+3.286	1.3396	23 14.1	1.2777	4 40.6	0.8883
12.5	0.7812	3.293	1.3404	23 14.4	1.2781	4 36.3	0.8858
13.5	0.7839	3.300	1.3411	23 14.7	1.2785	4 32.1	0.8830
14.5	0.7867	3.307	1.3419	23 15.0	1.2790	4 27.9	0.8802
15.5	0.7894	3.314	1.3427	23 15.3	1.2795	4 23.7	0.8772
16.5	0.7922	+3.321	1.3435	23 15.6	1.2800	4 19.5	0.8740
17.5	0.7949	3.328	1.3443	23 15.9	1.2805	4 15.2	0.8707
18.5	0.7976	3.335	1.3451	23 16.3	1.2810	4 11.1	0.8672
19.5	0.8004	3.342	1.3459	23 16.6	1.2815	4 6.9	0.8636
20.5	0.8031	3.349	1.3468	23 16.9	1.2821	4 2.7	0.8598
21.5	0.8058	+3.356	1.3476	23 17.2	1.2827	3 58.5	0.8558
22.5	0.8086	3.364	1.3484	23 17.6	1.2832	3 54.4	0.8517
23.5	0.8113	3.371	1.3493	23 17.9	1.2838	3 50.2	0.8473

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
	in 0.001 s	in 0.01 "				in 0.01 "	23° 27'		in 0.01 "
Sept. 16.5	− 7	+ 7	8.8 h	+35.68 "	+15.48 "	−12	5.05 "	+4.62 "	− 5
17.5	− 4	8	7.1	35.82	15.45	− 6	5.05	4.62	− 8
18.5	+ 1	9	5.8	35.96	15.41	+ 2	5.04	4.61	− 9
19.5	+ 6	10	4.5	36.10	15.37	+ 9	5.04	4.61	− 9
20.5	+10	9	3.2	36.23	15.34	+15	5.03	4.60	− 7
21.5	+12	+ 8	1.7	+36.37	+15.30	+19	5.02	+4.60	− 4
22.5	+12	8	0.0	36.51	15.26	+20	5.02	4.59	0
23.5	+10	8	22.0	36.65	15.23	+17	5.01	4.58	+ 4
24.5	+ 6	8	20.1	36.78	15.19	+11	5.00	4.58	+ 7
25.5	+ 1	9	18.4	36.92	15.16	+ 2	4.99	4.57	+ 9
26.5	− 5	+10	16.8	+37.06	+15.12	− 8	4.98	+4.56	+ 9
27.5	−10	10	15.2	37.20	15.08	−17	4.97	4.55	+ 8
28.5	−15	11	13.7	37.33	15.05	−24	4.96	4.54	+ 4
29.5	−17	11	12.1	37.47	15.01	−27	4.94	4.53	0
30.5	−15	11	10.4	37.61	14.98	−25	4.93	4.51	− 4
Okt. 1.5	−11	+11	8.8	+37.75	+14.94	−18	4.92	+4.50	− 8
2.5	− 5	10	7.1	37.88	14.91	− 8	4.90	4.49	−10
3.5	+ 3	10	5.3	38.02	14.87	+ 5	4.89	4.47	−10
4.5	+ 9	9	3.3	38.16	14.84	+15	4.87	4.46	− 7
5.5	+14	9	1.1	38.30	14.81	+22	4.85	4.44	− 2
6.5	+15	+10	23.0	+38.43	+14.77	+24	4.84	+4.43	+ 2
7.5	+12	10	21.2	38.57	14.74	+20	4.82	4.41	+ 7
8.5	+ 7	11	19.7	38.71	14.71	+11	4.80	4.40	+10
9.5	+ 1	10	18.1	38.85	14.68	+ 1	4.78	4.38	+10
10.5	− 5	9	16.6	38.99	14.65	− 8	4.76	4.36	+ 8
11.5	− 9	+ 7	14.5	+39.12	+14.62	−15	4.74	+4.34	+ 5
12.5	−10	7	12.1	39.26	14.59	−17	4.72	4.32	0
13.5	− 9	7	9.6	39.40	14.57	−15	4.70	4.30	− 4
14.5	− 6	8	7.7	39.54	14.54	− 9	4.68	4.28	− 7
15.5	− 1	9	6.2	39.67	14.51	− 1	4.66	4.26	− 9
16.5	+ 4	+10	4.9	+39.81	+14.49	+ 7	4.64	+4.24	− 9
17.5	+ 8	9	3.6	39.95	14.47	+14	4.61	4.22	− 8
18.5	+11	9	2.2	40.09	14.45	+18	4.59	4.20	− 5
19.5	+12	8	0.5	40.22	14.43	+19	4.57	4.18	− 1
20.5	+11	7	22.5	40.36	14.41	+17	4.54	4.15	+ 3
21.5	+ 7	+ 8	20.6	+40.50	+14.39	+12	4.52	+4.13	+ 6
22.5	+ 3	9	18.8	40.64	14.37	+ 4	4.49	4.11	+ 8
23.5	− 3	9	17.2	40.77	14.36	− 5	4.47	4.08	+ 9

Reduktionsgrößen 1916

Mittl. Zeit Greenwich		t	f	log g	G	log h	H	log i	i
			s		h m		h m		
Okt.	23.5	0.8113	+3.371	1.3493	23 17.9	1.2838	3 50.2	0.8473	
	24.5	0.8141	3.379	1.3501	23 18.2	1.2844	3 46.1	0.8429	
	25.5	0.8168	3.387	1.3510	23 18.6	1.2850	3 41.9	0.8382	
	26.5	0.8195	3.394	1.3519	23 18.9	1.2856	3 37.8	0.8333	
	27.5	0.8223	3.402	1.3527	23 19.3	1.2862	3 33.7	0.8282	
	28.5	0.8250	+3.410	1.3536	23 19.6	1.2869	3 29.6	0.8230	
	29.5	0.8277	3.418	1.3545	23 20.0	1.2875	3 25.5	0.8176	
	30.5	0.8305	3.426	1.3554	23 20.3	1.2881	3 21.4	0.8119	
	31.5	0.8332	3.434	1.3564	23 20.7	1.2888	3 17.3	0.8060	
Nov.	1.5	0.8360	3.443	1.3573	23 21.0	1.2894	3 13.3	0.7999	
	2.5	0.8387	+3.451	1.3582	23 21.4	1.2901	3 9.2	0.7936	
	3.5	0.8414	3.459	1.3592	23 21.8	1.2908	3 5.2	0.7871	
	4.5	0.8442	3.468	1.3601	23 22.1	1.2914	3 1.1	0.7803	
	5.5	0.8469	3.477	1.3611	23 22.5	1.2921	2 57.1	0.7733	
	6.5	0.8497	3.485	1.3621	23 22.8	1.2927	2 53.1	0.7660	
	7.5	0.8524	+3.494	1.3631	23 23.2	1.2934	2 49.1	0.7585	
	8.5	0.8551	3.503	1.3641	23 23.6	1.2940	2 45.1	0.7506	
	9.5	0.8579	3.512	1.3651	23 23.9	1.2947	2 41.1	0.7424	
	10.5	0.8606	3.521	1.3661	23 24.3	1.2953	2 37.1	0.7341	
	11.5	0.8633	3.531	1.3672	23 24.6	1.2960	2 33.2	0.7253	
	12.5	0.8661	+3.540	1.3682	23 25.0	1.2966	2 29.2	0.7163	
	13.5	0.8688	3.550	1.3693	23 25.3	1.2972	2 25.3	0.7070	
	14.5	0.8716	3.559	1.3703	23 25.6	1.2979	2 21.3	0.6973	
	15.5	0.8743	3.568	1.3714	23 26.0	1.2985	2 17.4	0.6872	
	16.5	0.8770	3.578	1.3725	23 26.4	1.2991	2 13.5	0.6768	
	17.5	0.8798	+3.588	1.3736	23 26.7	1.2997	2 9.6	0.6659	+4.633
	18.5	0.8825	3.598	1.3747	23 27.1	1.3003	2 5.7	0.6547	4.515
	19.5	0.8852	3.608	1.3758	23 27.4	1.3009	2 1.8	0.6429	4.394
	20.5	0.8880	3.618	1.3769	23 27.7	1.3014	1 57.9	0.6307	4.273
	21.5	0.8907	3.628	1.3780	23 28.1	1.3020	1 54.1	0.6181	4.151
	22.5	0.8935	+3.638	1.3792	23 28.4	1.3025	1 50.2	0.6049	+4.026
	23.5	0.8962	3.649	1.3803	23 28.7	1.3031	1 46.3	0.5912	3.901
	24.5	0.8989	3.659	1.3815	23 29.0	1.3036	1 42.5	0.5767	3.773
	25.5	0.9017	3.670	1.3827	23 29.3	1.3041	1 38.6	0.5617	3.645
	26.5	0.9044	3.680	1.3838	23 29.6	1.3046	1 34.8	0.5462	3.517
	27.5	0.9071	+3.691	1.3850	23 29.9	1.3051	1 31.0	0.5297	+3.386
	28.5	0.9099	3.702	1.3862	23 30.2	1.3056	1 27.2	0.5124	3.254
	29.5	0.9126	3.712	1.3874	23 30.5	1.3060	1 23.4	0.4944	3.122

Mittl. Zeit Greenwich	f′	g′	G′	Allgemeine Präzession seit 1916.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
	in 0.001	in 0.01				in 0.01	23° 27′		in 0.01
Okt. 23.5	− 3	+ 9	17.2	+40.77	+14.36	− 5	4.47	+4.08	+ 9
24.5	− 9	10	15.7	40.91	14.34	−15	4.44	4.06	+ 8
25.5	−14	11	14.2	41.05	14.33	−22	4.42	4.03	+ 6
26.5	−16	11	12.6	41.19	14.32	−27	4.39	4.01	+ 2
27.5	−16	11	11.0	41.32	14.31	−26	4.36	3.98	− 3
28.5	−12	+11	9.3	+41.46	+14.30	−20	4.33	+3.96	− 7
29.5	− 6	10	7.5	41.60	14.29	−10	4.31	3.93	−10
30.5	+ 1	10	5.7	41.74	14.29	+ 2	4.28	3.90	−10
31.5	+ 8	10	3.8	41.88	14.28	+13	4.25	3.88	− 8
Nov. 1.5	+13	10	1.7	42.01	14.28	+22	4.22	3.85	− 4
2.5	+15	+10	23.7	+42.15	+14.28	+25	4.20	+3.82	+ 1
3.5	+14	11	21.9	42.29	14.28	+23	4.17	3.80	+ 6
4.5	+ 9	11	20.3	42.43	14.28	+15	4.14	3.77	+ 9
5.5	+ 3	11	18.7	42.56	14.29	+ 5	4.11	3.74	+10
6.5	− 3	9	17.1	42.70	14.29	− 5	4.08	3.72	+ 9
7.5	− 8	+ 8	15.3	+42.84	+14.30	−13	4.06	+3.69	+ 6
8.5	−10	7	12.9	42.98	14.31	−17	4.03	3.66	+ 2
9.5	−10	7	10.4	43.11	14.32	−17	4.00	3.64	− 3
10.5	− 7	8	8.3	43.25	14.33	−12	3.97	3.61	− 7
11.5	− 3	9	6.8	43.39	14.35	− 4	3.94	3.58	− 9
12.5	+ 2	+10	5.4	+43.53	+14.36	+ 4	3.91	+3.55	− 9
13.5	+ 7	9	4.1	43.66	14.38	+11	3.89	3.53	− 8
14.5	+10	9	2.7	43.80	14.40	+17	3.86	3.50	− 6
15.5	+12	8	1.1	43.94	14.42	+19	3.83	3.47	− 2
16.5	+11	7	23.1	44.08	14.44	+18	3.80	3.45	+ 2
17.5	+ 8	+ 7	21.1	+44.21	+14.46	+13	3.77	+3.42	+ 5
18.5	+ 4	8	19.2	44.35	14.48	+ 6	3.75	3.39	+ 8
19.5	− 2	9	17.5	44.49	14.51	− 3	3.72	3.37	+ 9
20.5	− 8	10	16.0	44.63	14.54	−13	3.69	3.34	+ 9
21.5	−13	11	14.5	44.76	14.57	−21	3.67	3.32	+ 7
22.5	−16	+11	13.1	+44.90	+14.60	−27	3.64	+3.29	+ 3
23.5	−17	11	11.5	45.04	14.63	−27	3.61	3.27	− 1
24.5	−14	11	9.9	45.18	14.66	−23	3.59	3.24	− 6
25.5	− 9	10	8.2	45.32	14.69	−14	3.56	3.22	− 9
26.5	− 1	10	6.3	45.45	14.73	− 2	3.54	3.20	−10
27.5	+ 6	+10	4.4	+45.59	+14.77	+10	3.52	+3.17	− 9
28.5	+12	10	2.3	45.73	14.80	+20	3.49	3.15	− 6
29.5	+16	10	0.4	45.87	14.84	+26	3.47	3.13	− 1

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i	i
		s		h m		h m		″
Nov. 29.5	0.9126	+3.712	1.3874	23 30.5	1.3060	1 23.4	0.4944	+3.122
30.5	0.9154	3.723	1.3886	23 30.8	1.3064	1 19.6	0.4754	2.988
Dez. 1.5	0.9181	3.734	1.3898	23 31.1	1.3068	1 15.8	0.4554	2.854
2.5	0.9208	3.745	1.3911	23 31.4	1.3072	1 12.0	0.4342	2.718
3.5	0.9236	3.756	1.3923	23 31.6	1.3076	1 8.2	0.4118	2.581
4.5	0.9263	+3.768	1.3935	23 31.9	1.3080	1 4.4	0.3881	+2.444
5.5	0.9291	3.779	1.3947	23 32.1	1.3083	1 0.6	0.3629	2.306
6.5	0.9318	3.790	1.3960	23 32.4	1.3087	0 56.8	0.3359	2.167
7.5	0.9345	3.801	1.3972	23 32.6	1.3090	0 53.1	0.3068	2.027
8.5	0.9373	3.813	1.3984	23 32.9	1.3093	0 49.3	0.2758	1.887
9.5	0.9400	+3.824	1.3997	23 33.1	1.3095	0 45.6	0.2423	+1.747
10.5	0.9427	3.836	1.4009	23 33.3	1.3098	0 41.8	0.2057	1.606
11.5	0.9455	3.847	1.4022	23 33.6	1.3100	0 38.0	0.1655	1.464
12.5	0.9482	3.859	1.4034	23 33.8	1.3102	0 34.3	0.1209	1.321
13.5	0.9510	3.870	1.4047	23 34.0	1.3104	0 30.6	0.0711	1.178
14.5	0.9537	+3.882	1.4060	23 34.2	1.3106	0 26.8	0.0149	+1.035
15.5	0.9564	3.893	1.4072	23 34.4	1.3107	0 23.1	9.9499	0.891
16.5	0.9592	3.905	1.4085	23 34.5	1.3108	0 19.3	9.8733	0.747
17.5	0.9619	3.917	1.4097	23 34.7	1.3109	0 15.6	9.7803	0.603
18.5	0.9646	3.928	1.4110	23 34.9	1.3110	0 11.8	9.6618	0.459
19.5	0.9674	+3.940	1.4122	23 35.0	1.3111	0 8.1	9.4969	+0.314
20.5	0.9701	3.952	1.4135	23 35.2	1.3111	0 4.4	9.2279	0.169
21.5	0.9729	3.963	1.4148	23 35.3	1.3111	0 0.6	8.3802	+0.024
22.5	0.9756	3.975	1.4160	23 35.5	1.3111	23 56.9	9.0792_n	−0.120
23.5	0.9783	3.987	1.4173	23 35.6	1.3111	23 53.2	9.4232_n	0.265
24.5	0.9811	+3.999	1.4185	23 35.7	1.3110	23 49.4	9.6128_n	−0.410
25.5	0.9838	4.010	1.4198	23 35.9	1.3110	23 45.7	9.7443_n	0.555
26.5	0.9865	4.022	1.4210	23 36.0	1.3109	23 41.9	9.8445_n	0.699
27.5	0.9893	4.034	1.4222	23 36.1	1.3108	23 38.2	9.9258_n	0.843
28.5	0.9920	4.045	1.4235	23 36.2	1.3106	23 34.4	9.9943_n	0.987
29.5	0.9948	+4.057	1.4247	23 36.3	1.3104	23 30.7	0.0535_n	−1.131
30.5	0.9975	4.068	1.4259	23 36.4	1.3103	23 26.9	0.1052_n	1.274
31.5	1.0002	4.080	1.4271	23 36.4	1.3101	23 23.2	0.1514_n	1.417
32.5	1.0030	4.091	1.4283	23 36.5	1.3098	23 19.4	0.1931_n	1.560
33.5	1.0057	4.103	1.4295	23 36.6	1.3096	23 15.6	0.2310_n	1.702

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1916.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
	in 0.ˢ001	in 0.″01				in 0.″01	23°27′		in 0.″01
Nov. 29.5	+16	+10	0.ʰ4	+45.″87	+14.″84	+26	3.″47	+3.″13	− 1
30.5	+15	11	22.5	46.00	14.88	+25	3.45	3.11	+ 4
Dez. 1.5	+12	11	20.9	46.14	14.93	+19	3.42	3.09	+ 8
2.5	+ 6	11	19.4	46.28	14.97	+10	3.40	3.07	+10
3.5	0	10	17.9	46.42	15.01	− 1	3.38	3.05	+10
4.5	− 6	+ 8	16.1	+46.55	+15.06	−10	3.36	+3.03	+ 7
5.5	− 9	7	13.8	46.69	15.10	−15	3.34	3.01	+ 3
6.5	−10	7	11.1	46.83	15.15	−17	3.32	2.99	− 2
7.5	− 8	8	8.9	46.97	15.20	−13	3.30	2.97	− 6
8.5	− 4	9	7.1	47.10	15.25	− 6	3.28	2.95	− 8
9.5	+ 1	+ 9	5.8	+47.24	+15.30	+ 2	3.26	+2.94	− 9
10.5	+ 6	9	4.5	47.38	15.35	+ 9	3.25	2.92	− 9
11.5	+ 9	9	3.1	47.52	15.40	+16	3.23	2.91	− 6
12.5	+11	8	1.5	47.65	15.45	+19	3.21	2.89	− 3
13.5	+11	7	23.7	47.79	15.50	+19	3.20	2.88	+ 1
14.5	+ 9	+ 7	21.6	+47.93	+15.55	+15	3.18	+2.86	+ 4
15.5	+ 5	8	19.7	48.07	15.60	+ 8	3.17	2.85	+ 7
16.5	0	9	17.9	48.20	15.66	− 1	3.16	2.84	+ 9
17.5	− 6	10	16.3	48.34	15.71	−11	3.14	2.83	+ 9
18.5	−12	11	14.9	48.48	15.76	−20	3.13	2.82	+ 7
19.5	−16	+11	13.5	+48.62	+15.82	−26	3.12	+2.81	+ 4
20.5	−18	12	12.0	48.76	15.87	−29	3.11	2.80	0
21.5	−16	11	10.5	48.89	15.92	−27	3.10	2.79	− 4
22.5	−12	11	9.0	49.03	15.98	−19	3.09	2.78	− 8
23.5	− 5	10	7.2	49.17	16.03	− 8	3.08	2.78	−10
24.5	+ 3	+10	5.3	+49.31	+16.08	+ 5	3.08	+2.77	−10
25.5	+10	9	3.2	49.44	16.14	+16	3.07	2.76	− 7
26.5	+14	10	1.1	49.58	16.19	+24	3.06	2.76	− 3
27.5	+16	11	23.1	49.72	16.25	+26	3.06	2.75	+ 2
28.5	+14	11	21.5	49.86	16.30	+22	3.05	2.75	+ 7
29.5	+ 9	+11	20.0	+49.99	+16.35	+14	3.05	+2.75	+10
30.5	+ 2	10	18.6	50.13	16.40	+ 4	3.04	2.75	+10
31.5	− 4	8	16.9	50.27	16.45	− 6	3.04	2.74	+ 8
32.5	− 8	7	14.8	50.41	16.50	−13	3.04	2.74	+ 5
33.5	− 9	6	11.9	50.54	16.55	−15	3.04	2.74	0

Reductionsgrößen 1916

für 0^h Sternzeit Greenwich

Mittlere Zeit Greenwich		t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
Jan.	1.222	0.0001	+0.26782	382	−536	−5.373 ″	1	+ 47	− 3.256 ″	327	+20.160 ″	66
	2.219	0.0028	0.27164	381	−359	5.374	1	+ 86	3.583	327	20.094	73
	3.217	0.0056	0.27545	380	−108	5.375	1	+107	3.910	325	20.021	79
	4.214	0.0083	0.27925	379	+165	5.376	2	+101	4.235	324	19.942	85
	5.211	0.0110	0.28304	377	+404	5.378	3	+ 71	4.559	323	19.857	91
	6.208	0.0138	+0.28681	375	+550	−5.381	4	+ 24	− 4.882	321	+19.766	97
	7.206	0.0165	0.29056	373	+583	5.385	4	− 28	5.203	318	19.669	104
	8.203	0.0192	0.29429	372	+501	5.389	5	− 73	5.521	318	19.565	110
	9.200	0.0219	0.29801	370	+334	5.394	6	−100	5.839	315	19.455	115
	10.197	0.0247	0.30171	368	+123	5.400	6	−104	6.154	314	19.340	122
	11.195	0.0274	+0.30539	366	− 76	−5.406	6	− 88	− 6.468	312	+19.218	128
	12.192	0.0301	0.30905	364	−227	5.412	7	− 55	6.780	309	19.090	135
	13.189	0.0329	0.31269	361	−309	5.419	7	− 12	7.089	308	18.955	140
	14.186	0.0356	0.31630	359	−311	5.426	8	+ 30	7.397	305	18.815	145
	15.184	0.0383	0.31989	356	−241	5.434	9	+ 66	7.702	302	18.670	152
	16.181	0.0411	+0.32345	354	−125	−5.443	10	+ 88	− 8.004	300	+18.518	157
	17.178	0.0438	0.32699	352	+ 18	5.453	9	+ 95	8.304	297	18.361	164
	18.176	0.0465	0.33051	350	+160	5.462	9	+ 86	8.601	295	18.197	169
	19.173	0.0492	0.33401	346	+273	5.471	10	+ 60	8.896	291	18.028	175
	20.170	0.0520	0.33747	343	+337	5.481	11	+ 26	9.187	288	17.853	180
	21.167	0.0547	+0.34090	340	+335	−5.492	10	− 15	− 9.475	286	+17.673	186
	22.165	0.0574	0.34430	337	+256	5.502	11	− 56	9.761	283	17.487	191
	23.162	0.0602	0.34767	335	+110	5.513	11	− 86	10.044	279	17.296	197
	24.159	0.0629	0.35102	333	− 88	5.524	12	−100	10.323	276	17.099	201
	25.156	0.0656	0.35435	329	−298	5.536	12	− 92	10.599	273	16.898	207
	26.154	0.0684	+0.35764	326	−480	−5.548	13	− 67	−10.872	269	+16.691	212
	27.151	0.0711	0.36090	322	−580	5.561	12	− 24	11.141	266	16.479	217
	28.148	0.0738	0.36412	320	−574	5.573	12	+ 25	11.407	262	16.262	223
	29.146	0.0766	0.36732	317	−453	5.585	13	+ 71	11.669	258	16.039	228
	30.143	0.0793	0.37049	314	−236	5.598	13	+101	11.927	254	15.811	232
	31.140	0.0820	+0.37363	310	+ 27	−5.611	12	+106	−12.181	251	+15.579	237
Febr.	1.137	0.0847	0.37673	306	+279	5.623	13	+ 87	12.432	246	15.342	242
	2.135	0.0875	0.37979	303	+464	5.636	13	+ 46	12.678	243	15.100	246
	3.132	0.0902	0.38282	300	+545	5.649	13	− 5	12.921	239	14.854	250
	4.129	0.0929	0.38582	297	+509	5.662	13	− 54	13.160	234	14.604	256
	5.126	0.0957	+0.38879	294	+377	−5.675	14	− 91	−13.394	230	+14.348	260
	6.124	0.0984	0.39173	290	+183	5.689	13	−105	13.624	226	14.088	264
	7.121	0.1011	0.39463		− 20	5.702		− 97	13.850		13.824	

$E = +0.0021$

Reduktionsgrößen 1916

für 0ʰ Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A		A'	B		B'	C		D	
Febr. 7.121	0.1011	+0.39463	288	− 20	−5.702	12	− 97	−13.850	221	+13.824	268
8.118	0.1039	0.39751	285	−190	5.714	13	− 69	14.071	217	13.556	272
9.116	0.1066	0.40036	281	−291	5.727	12	− 29	14.288	213	13.284	277
10.113	0.1093	0.40317	277	−318	5.739	12	+ 15	14.501	208	13.007	281
11.110	0.1120	0.40594	274	−268	5.751	12	+ 54	14.709	203	12.726	285
12.107	0.1148	+0.40868	272	−163	−5.763	13	+ 81	−14.912	198	+12.441	287
13.105	0.1175	0.41140	269	− 24	5.776	12	+ 95	15.110	194	12.154	291
14.102	0.1202	0.41409	266	+118	5.788	12	+ 91	15.304	189	11.863	295
15.099	0.1230	0.41675	262	+246	5.800	12	+ 73	15.493	184	11.568	299
16.096	0.1257	0.41937	260	+329	5.812	11	+ 39	15.677	180	11.269	302
17.094	0.1284	+0.42197	257	+356	−5.823	11	+ 1	−15.857	174	+10.967	305
18.091	0.1312	0.42454	254	+309	5.834	11	− 40	16.031	168	10.662	308
19.088	0.1339	0.42708	251	+193	5.845	10	− 75	16.199	165	10.354	311
20.085	0.1366	0.42959	248	+ 16	5.855	10	− 95	16.364	159	10.043	315
21.083	0.1394	0.43207	245	−192	5.865	9	− 98	16.523	154	9.728	318
22.080	0.1421	+0.43452	243	−384	−5.874	9	− 78	−16.677	149	+ 9.410	320
23.077	0.1448	0.43695	241	−520	5.883	8	− 42	16.826	144	9.090	322
24.075	0.1475	0.43936	238	−562	5.891	9	+ 7	16.970	137	8.768	325
25.072	0.1503	0.44174	235	−491	5.900	8	+ 54	17.107	133	8.443	328
26.069	0.1530	0.44409	234	−317	5.908	7	+ 90	17.240	128	8.115	330
27.066	0.1557	+0.44643	231	− 77	−5.915	7	+106	−17.368	123	+ 7.785	332
28.064	0.1585	0.44874	229	+177	5.922	6	+ 96	17.491	117	7.453	334
29.061	0.1612	0.45103	227	+386	5.928	6	+ 63	17.608	110	7.119	336
März 1.058	0.1639	0.45330	225	+505	5.934	5	+ 16	17.718	106	6.783	338
2.055	0.1667	0.45555	223	+511	5.939	5	− 35	17.824	101	6.445	340
3.053	0.1694	+0.45778	222	+411	−5.944	4	− 78	−17.925	95	+ 6.105	342
4.050	0.1721	0.46000	219	+235	5.948	3	−103	18.020	89	5.763	343
5.047	0.1748	0.46219	217	+ 29	5.951	3	−102	18.109	84	5.420	344
6.045	0.1776	0.46436	215	−157	5.954	3	− 81	18.193	78	5.076	346
7.042	0.1803	0.46651	215	−284	5.957	2	− 45	18.271	73	4.730	348
8.039	0.1830	+0.46866	214	−333	−5.959	2	0	−18.344	67	+ 4.382	349
9.036	0.1858	0.47080	212	−304	5.961	0	+ 41	18.411	62	4.033	349
10.034	0.1885	0.47292	211	−213	5.961	0	+ 73	18.473	56	3.684	351
11.031	0.1912	0.47503	210	− 80	5.961	0	+ 92	18.529	50	3.333	351
12.028	0.1940	0.47713	209	+ 66	5.961	1	+ 94	18.579	45	2.982	352
13.025	0.1967	+0.47922	208	+200	−5.960	2	+ 81	−18.624	39	+ 2.630	352
14.023	0.1994	0.48130	207	+301	5.958	3	+ 53	18.663	33	2.278	353
15.020	0.2022	0.48337		+349	5.955		+ 15	18.696		1.925	

$E = +0.0021$ s

Reduktionsgrößen 1916

für 0ʰ Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A		A'	B		B'	C		D	
März 15.020	0.2022	+0.48337	207	+349	−5.″955	3	+ 15	−18.″696	28	+ 1.″925	354
16.017	0.2049	0.48544	206	+331	5.952	4	− 26	18.724	21	1.571	353
17.014	0.2076	0.48750	206	+241	5.948	5	− 62	18.745	17	1.218	354
18.012	0.2103	0.48956	206	+ 89	5.943	5	− 88	18.762	11	0.864	354
19.009	0.2131	0.49162	206	−102	5.938	6	− 99	18.773	6	0.510	354
20.006	0.2158	+0.49368	205	−299	−5.932	6	− 88	−18.779	0	+ 0.156	354
21.004	0.2185	0.49573	206	−455	5.926	7	− 59	18.779	6	− 0.198	353
22.001	0.2213	0.49779	205	−531	5.919	8	− 13	18.773	12	0.551	353
22.998	0.2240	0.49984	205	−504	5.911	9	+ 35	18.761	17	0.904	353
23.995	0.2267	0.50189	206	−368	5.902	9	+ 77	18.744	23	1.257	352
24.993	0.2295	+0.50395	207	−149	−5.893	10	+103	−18.721	28	− 1.609	351
25.990	0.2322	0.50602	207	+ 99	5.883	11	+104	18.693	34	1.960	351
26.987	0.2349	0.50809	208	+330	5.872	11	+ 79	18.659	40	2.311	349
27.984	0.2376	0.51017	208	+483	5.861	12	+ 36	18.619	44	2.660	348
28.982	0.2404	0.51225	209	+528	5.849	12	− 16	18.575	50	3.008	348
29.979	0.2431	+0.51434	209	+460	−5.837	13	− 64	−18.525	56	− 3.356	346
30.976	0.2458	0.51643	211	+303	5.824	14	− 95	18.469	61	3.702	346
31.974	0.2486	0.51854	212	+ 97	5.810	14	−104	18.408	66	4.048	344
April 1.971	0.2513	0.52066	213	−104	5.796	15	− 91	18.342	72	4.392	342
2.968	0.2540	0.52279	215	−259	5.781	15	− 59	18.270	77	4.734	340
3.965	0.2568	+0.52494	216	−340	−5.766	16	− 18	−18.193	83	− 5.074	339
4.963	0.2595	0.52710	217	−341	5.750	17	+ 27	18.110	87	5.413	338
5.960	0.2622	0.52927	219	−265	5.733	17	+ 62	18.023	93	5.751	335
6.957	0.2650	0.53146	221	−142	5.716	18	+ 87	17.930	98	6.086	333
7.954	0.2677	0.53367	222	+ 6	5.698	18	+ 95	17.832	104	6.419	332
8.952	0.2704	+0.53589	224	+147	−5.680	18	+ 87	−17.728	108	− 6.751	329
9.949	0.2731	0.53813	226	+260	5.662	19	+ 64	17.620	113	7.080	327
10.946	0.2759	0.54039	228	+327	5.643	20	+ 31	17.507	118	7.407	324
11.943	0.2786	0.54267	229	+332	5.623	20	− 9	17.389	123	7.731	322
12.941	0.2813	0.54496	232	+265	5.603	20	− 49	17.266	129	8.053	319
13.938	0.2841	+0.54728	234	+138	−5.583	21	− 81	−17.137	134	− 8.372	317
14.935	0.2868	0.54962	236	− 42	5.562	21	− 96	17.003	138	8.689	315
15.933	0.2895	0.55198	238	−236	5.541	22	− 95	16.865	143	9.004	311
16.930	0.2923	0.55436	241	−409	5.519	22	− 72	16.722	147	9.315	309
17.927	0.2950	0.55677	243	−514	5.497	22	− 32	16.575	153	9.624	306
18.924	0.2977	+0.55920	246	−523	−5.475	23	+ 16	−16.422	157	− 9.930	302
19.922	0.3004	0.56166	248	−423	5.452	23	+ 61	16.265	163	10.232	300
20.919	0.3032	0.56414		−227	5.429		+ 94	16.102		10.532	

$E = +0^{s}.0022$

für 0ʰ Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A	Δ	A'	B	Δ	B'	C	Δ	D	Δ
April 20.919	0.3032	+0.56414	250	−227	−5.″429	24	+ 94	−16.″102	166	−10.″532	296
21.916	0.3059	0.56664	253	+ 23	5.405	23	+106	15.936	170	10.828	294
22.913	0.3086	0.56917	255	+269	5.382	24	+ 91	15.766	175	11.122	289
23.911	0.3114	0.57172	258	+459	5.358	24	+ 56	15.591	180	11.411	286
24.908	0.3141	0.57430	261	+548	5.334	25	+ 5	15.411	183	11.697	283
25.905	0.3168	+0.57691	263	+523	−5.309	24	− 45	−15.228	188	−11.980	279
26.903	0.3196	0.57954	266	+394	5.285	25	− 84	15.040	194	12.259	276
27.900	0.3223	0.58220	269	+195	5.260	24	−103	14.846	196	12.535	272
28.897	0.3250	0.58489	271	− 20	5.236	25	−100	14.650	201	12.807	268
29.894	0.3278	0.58760	275	−204	5.211	25	− 75	14.449	204	13.075	264
30.892	0.3305	+0.59035	277	−320	−5.186	26	− 36	−14.245	209	−13.339	259
Mai 1.889	0.3332	0.59312	279	−352	5.160	25	+ 10	14.036	212	13.598	256
2.886	0.3359	0.59591	282	−305	5.135	26	+ 49	13.824	216	13.854	253
3.883	0.3387	0.59873	285	−195	5.109	25	+ 79	13.608	220	14.107	248
4.881	0.3414	0.60158	288	− 53	5.084	26	+ 94	13.388	225	14.355	244
5.878	0.3441	+0.60446	291	+ 95	−5.058	25	+ 92	−13.163	227	−14.599	240
6.875	0.3469	0.60737	293	+220	5.033	24	+ 73	12.936	231	14.839	235
7.872	0.3496	0.61030	296	+305	5.009	25	+ 43	12.705	234	15.074	230
8.870	0.3523	0.61326	298	+330	4.984	26	+ 5	12.471	238	15.304	227
9.867	0.3551	0.61624	302	+283	4.958	25	− 35	12.233	241	15.531	222
10.864	0.3578	+0.61926	305	+173	−4.933	24	− 69	−11.992	245	−15.753	217
11.862	0.3605	0.62231	307	+ 7	4.909	25	− 92	11.747	247	15.970	213
12.859	0.3632	0.62538	309	−188	4.884	24	− 97	11.500	251	16.183	208
13.856	0.3660	0.62847	312	−374	4.860	25	− 82	11.249	255	16.391	204
14.853	0.3687	0.63159	314	−509	4.835	24	− 49	10.994	256	16.595	198
15.851	0.3714	+0.63473	317	−558	−4.811	24	− 3	−10.738	260	−16.793	194
16.848	0.3742	0.63790	319	−494	4.787	24	+ 44	10.478	263	16.987	189
17.845	0.3769	0.64109	322	−329	4.763	23	+ 82	10.215	265	17.176	184
18.842	0.3796	0.64431	325	− 89	4.740	23	+103	9.950	268	17.360	180
19.840	0.3824	0.64756	327	+174	4.717	23	+100	9.682	271	17.540	174
20.837	0.3851	+0.65083	329	+404	−4.694	22	+ 73	− 9.411	273	−17.714	169
21.834	0.3878	0.65412	331	+546	4.672	22	+ 27	9.138	276	17.883	164
22.832	0.3906	0.65743	333	+574	4.650	22	− 24	8.862	278	18.047	159
23.829	0.3933	0.66076	336	+485	4.628	22	− 71	8.584	280	18.206	154
24.826	0.3960	0.66412	338	+308	4.606	21	− 98	8.304	282	18.360	149
25.823	0.3987	+0.66750	339	+ 91	−4.585	21	−103	− 8.022	285	−18.509	143
26.821	0.4015	0.67089	342	−114	4.564	20	− 87	7.737	288	18.652	138
27.818	0.4042	0.67431		−263	4.544		− 51	7.449		18.790	

$E = +0.^{s}0023$

Reduktionsgrößen 1916

für 0^h Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A		A'	B		B'	C		D	
Mai 27.818	0.4042	+0.67431	345	−263	−4.544	20	− 51	−7.449	288	−18.790	133
28.815	0.4069	0.67776	346	−334	4.524	20	− 7	7.161	291	18.923	128
29.812	0.4097	0.68122	347	−319	4.504	19	+ 36	6.870	293	19.051	122
30.810	0.4124	0.68469	349	−232	4.485	18	+ 70	6.577	294	19.173	117
31.807	0.4151	0.68818	351	− 99	4.467	18	+ 91	6.283	296	19.290	112
Juni 1.804	0.4179	+0.69169	353	+ 53	−4.449	18	+ 94	−5.987	297	−19.402	105
2.802	0.4206	0.69522	354	+188	4.431	18	+ 81	5.690	299	19.507	101
3.799	0.4233	0.69876	355	+286	4.413	17	+ 55	5.391	300	19.608	95
4.796	0.4260	0.70231	356	+329	4.396	17	+ 19	5.091	302	19.703	90
5.793	0.4288	0.70587	358	+308	4.379	16	− 20	4.789	303	19.793	85
6.791	0.4315	+0.70945	359	+219	−4.363	15	− 57	−4.486	304	−19.878	79
7.788	0.4342	0.71304	360	+ 67	4.348	15	− 84	4.182	305	19.957	72
8.785	0.4370	0.71664	361	−126	4.333	14	− 97	3.877	307	20.029	68
9.782	0.4397	0.72025	362	−326	4.319	14	− 89	3.570	307	20.097	62
10.780	0.4424	0.72387	364	−490	4.305	13	− 63	3.263	308	20.159	56
11.777	0.4452	+0.72751	365	−581	−4.292	12	− 23	−2.955	308	−20.215	51
12.774	0.4479	0.73116	365	−568	4.280	12	+ 24	2.647	310	20.266	45
13.771	0.4506	0.73481	365	−445	4.268	12	+ 69	2.337	310	20.311	40
14.769	0.4534	0.73846	366	−228	4.256	11	+ 98	2.027	310	20.351	34
15.766	0.4561	0.74212	366	+ 37	4.245	10	+104	1.717	311	20.385	28
16.763	0.4588	+0.74578	367	+293	−4.235	10	+ 84	−1.406	312	−20.413	23
17.761	0.4615	0.74945	367	+484	4.225	9	+ 45	1.094	311	20.436	16
18.758	0.4643	0.75312	367	+571	4.216	8	− 5	0.783	312	20.452	11
19.755	0.4670	0.75679	367	+536	4.208	8	− 54	0.471	312	20.463	6
20.752	0.4697	0.76046	367	+402	4.200	8	− 91	−0.159	312	20.469	1
21.750	0.4725	+0.76413	367	+200	−4.192	7	−105	+0.153	311	−20.470	6
22.747	0.4752	0.76780	367	− 13	4.185	6	− 95	0.464	312	20.464	11
23.744	0.4779	0.77147	366	−188	4.179	5	− 67	0.776	311	20.453	17
24.741	0.4807	0.77513	367	−290	4.174	5	− 25	1.087	311	20.436	23
25.739	0.4834	0.77880	366	−309	4.169	5	+ 20	1.398	311	20.413	28
26.736	0.4861	+0.78246	365	−247	−4.164	4	+ 58	+1.709	310	−20.385	33
27.733	0.4888	0.78611	364	−130	4.160	3	+ 85	2.019	310	20.352	39
28.731	0.4916	0.78975	364	+ 18	4.157	3	+ 94	2.329	309	20.313	46
29.728	0.4943	0.79339	364	+160	4.154	3	+ 87	2.638	308	20.267	50
30.725	0.4970	0.79703	362	+276	4.151	1	+ 66	2.946	307	20.217	56
Juli 1.722	0.4998	+0.80065	362	+340	−4.150	1	+ 34	+3.253	307	−20.161	62
2.720	0.5025	0.80427	361	+342	4.149	0	− 5	3.560	305	20.099	67
3.717	0.5052	0.80788		+276	4.149		− 44	3.865		20.032	

$E = +0^{s}.0023$

für 0^h Sternzeit Greenwich

	Mittlere Zeit Greenwich	t	A		A'	B		B'	C		D	
Juli	3.717	0.5052	+0.80788	360	+276	−4″.149	0	− 44	+ 3″.865	305	−20″.032	72
	4.714	0.5080	0.81148	359	+145	4.149	0	− 75	4.170	303	19.960	79
	5.711	0.5107	0.81507	357	− 40	4.149	1	− 94	4.473	302	19.881	84
	6.709	0.5134	0.81864	355	−244	4.150	2	− 94	4.775	301	19.797	89
	7.706	0.5162	0.82219	354	−434	4.152	2	− 76	5.076	300	19.708	94
	8.703	0.5189	+0.82573	353	−568	−4.154	3	− 41	+ 5.376	297	−19.614	100
	9.700	0.5216	0.82926	352	−606	4.157	3	+ 5	5.673	296	19.514	106
	10.698	0.5243	0.83278	350	−535	4.160	4	+ 51	5.969	295	19.408	111
	11.695	0.5271	0.83628	348	−361	4.164	4	+ 88	6.264	293	19.297	116
	12.692	0.5298	0.83976	347	−116	4.168	4	+103	6.557	292	19.181	121
	13.690	0.5325	+0.84323	344	+150	−4.172	5	+ 95	+ 6.849	288	−19.060	126
	14.687	0.5353	0.84667	343	+374	4.177	6	+ 63	7.137	287	18.934	131
	15.684	0.5380	0.85010	340	+512	4.183	6	+ 16	7.424	286	18.803	138
	16.681	0.5407	0.85350	338	+536	4.189	6	− 33	7.710	283	18.665	142
	17.679	0.5435	0.85688	337	+445	4.195	6	− 78	7.993	281	18.523	147
	18.676	0.5462	+0.86025	335	+275	−4.201	7	−102	+ 8.274	279	−18.376	153
	19.673	0.5489	0.86360	332	+ 70	4.208	7	−102	8.553	277	18.223	157
	20.670	0.5516	0.86692	330	−117	4.215	8	− 81	8.830	274	18.066	162
	21.668	0.5544	0.87022	328	−245	4.223	8	− 42	9.104	272	17.904	168
	22.665	0.5571	0.87350	325	−294	4.231	8	+ 3	9.376	269	17.736	172
	23.662	0.5598	+0.87675	323	−256	−4.239	9	+ 45	+ 9.645	267	−17.564	177
	24.660	0.5626	0.87998	322	−155	4.248	9	+ 78	9.912	264	17.387	182
	25.657	0.5653	0.88320	319	− 16	4.257	9	+ 94	10.176	260	17.205	187
	26.654	0.5680	0.88639	316	+132	4.266	9	+ 93	10.436	258	17.018	191
	27.651	0.5708	0.88955	313	+259	4.275	10	+ 75	10.694	256	16.827	197
	28.649	0.5735	+0.89268	310	+345	−4.285	9	+ 46	+10.950	252	−16.630	201
	29.646	0.5762	0.89578	308	+372	4.294	10	+ 9	11.202	250	16.429	206
	30.643	0.5790	0.89886	305	+331	4.304	10	− 29	11.452	246	16.223	210
	31.640	0.5817	0.90191	302	+224	4.314	10	− 64	11.698	243	16.013	214
Aug.	1.638	0.5844	0.90493	300	+ 59	4.324	10	− 86	11.941	240	15.799	219
	2.635	0.5871	+0.90793	298	−141	−4.334	11	− 95	+12.181	237	−15.580	223
	3.632	0.5899	0.91091	296	−343	4.345	10	− 84	12.418	233	15.357	229
	4.629	0.5926	0.91387	292	−504	4.355	11	− 55	12.651	229	15.128	232
	5.627	0.5953	0.91679	288	−593	4.366	10	− 13	12.880	226	14.896	236
	6.624	0.5981	0.91967	286	−577	4.376	10	+ 34	13.106	223	14.660	241
	7.621	0.6008	+0.92253	284	−452	−4.386	11	+ 74	+13.329	219	−14.419	244
	8.619	0.6035	0.92537	281	−240	4.397	11	+ 99	13.548	215	14.175	248
	9.616	0.6063	0.92818		+ 15	4.408		+101	13.763		13.927	

$E = +0''.0023$

Reduktionsgrößen 1916

für 0^h Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A		A′	B		B′	C		D	
Aug. 9.616	0.6063	+0.92818	279	+ 15	−4.408″	11	+101	+13.763″	212	−13.927″	252
10.613	0.6090	0.93097	276	+255	4.419	10	+ 79	13.975	207	13.675	258
11.610	0.6117	0.93373	272	+428	4.429	11	+ 37	14.182	204	13.417	260
12.608	0.6144	0.93645	270	+498	4.440	10	− 14	14.386	199	13.157	264
13.605	0.6172	0.93915	268	+454	4.450	11	− 61	14.585	196	12.893	267
14.602	0.6199	+0.94183	265	+316	−4.461	10	− 94	+14.781	192	−12.626	271
15.599	0.6226	0.94448	261	+124	4.471	10	−104	14.973	188	12.355	275
16.597	0.6254	0.94709	259	− 69	4.481	9	− 91	15.161	183	12.080	278
17.594	0.6281	0.94968	257	−217	4.490	10	− 59	15.344	180	11.802	282
18.591	0.6308	0.95225	254	−290	4.500	10	− 14	15.524	175	11.520	285
19.589	0.6336	+0.95479	252	−276	−4.510	10	+ 29	+15.699	170	−11.235	289
20.586	0.6363	0.95731	249	−192	4.520	9	+ 67	15.869	166	10.946	292
21.583	0.6390	0.95980	246	− 58	4.529	8	+ 90	16.035	161	10.654	295
22.580	0.6418	0.96226	243	+ 92	4.537	8	+ 94	16.196	158	10.359	297
23.578	0.6445	0.96469	242	+232	4.545	8	+ 83	16.354	153	10.062	301
24.575	0.6472	+0.96711	239	+335	−4.553	7	+ 58	+16.507	148	− 9.761	303
25.572	0.6499	0.96950	237	+384	4.560	8	+ 23	16.655	143	9.458	307
26.569	0.6527	0.97187	235	+368	4.568	7	− 14	16.798	139	9.151	309
27.567	0.6554	0.97422	233	+289	4.575	7	− 52	16.937	134	8.842	312
28.564	0.6581	0.97655	230	+148	4.582	7	− 79	17.071	129	8.530	314
29.561	0.6609	+0.97885	229	− 38	−4.589	6	− 93	+17.200	125	− 8.216	317
30.558	0.6636	0.98114	226	−239	4.595	5	− 89	17.325	119	7.899	320
31.556	0.6664	0.98340	224	−419	4.600	6	− 68	17.444	115	7.579	321
Sept. 1.553	0.6691	0.98564	222	−539	4.606	5	− 31	17.559	109	7.258	324
2.550	0.6718	0.98786	221	−568	4.611	4	+ 14	17.668	105	6.934	325
3.548	0.6745	+0.99007	218	−491	−4.615	3	+ 59	+17.773	100	− 6.609	328
4.545	0.6772	0.99225	216	−317	4.618	4	+ 91	17.873	95	6.281	330
5.542	0.6800	0.99441	215	− 85	4.622	3	+102	17.968	90	5.951	332
6.539	0.6827	0.99656	213	+159	4.625	2	+ 90	18.058	85	5.619	333
7.537	0.6854	0.99869	212	+354	4.627	2	+ 55	18.143	78	5.286	335
8.534	0.6882	+1.00081	211	+459	−4.629	1	+ 7	+18.221	75	− 4.951	337
9.531	0.6909	1.00292	209	+454	4.630	0	− 43	18.296	69	4.614	338
10.528	0.6936	1.00501	208	+346	4.630	0	− 84	18.365	64	4.276	340
11.526	0.6964	1.00709	207	+167	4.630	0	−103	18.429	58	3.936	341
12.523	0.6991	1.00916	206	− 29	4.630	1	− 99	18.487	54	3.595	342
13.520	0.7018	+1.01122	206	−197	−4.629	2	− 73	+18.541	47	− 3.253	343
14.518	0.7046	1.01328	204	−296	4.627	2	− 32	18.588	43	2.910	344
15.515	0.7073	1.01532		−311	4.625		+ 14	18.631		2.566	

$E = +0\overset{s}{.}0024$

Reduktionsgrößen 1916

für 0^h Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
Sept. 15.515	0.7073	+1.01532	204	−311	−4″.625	3	+ 14	+18″.631	38	−2″.566	346
16.512	0.7100	1.01736	203	−243	4.622	4	+ 55	18.669	32	2.220	346
17.509	0.7127	1.01939	202	−118	4.618	4	+ 82	18.701	26	1.874	346
18.507	0.7155	1.02141	201	+ 36	4.614	5	+ 94	18.727	20	1.528	348
19.504	0.7182	1.02342	201	+186	4.609	5	+ 89	18.747	16	1.180	348
20.501	0.7209	+1.02543	202	+304	−4.604	6	+ 70	+18.763	11	−0.832	349
21.498	0.7237	1.02745	201	+374	4.598	7	+ 37	18.774	5	0.483	349
22.496	0.7264	1.02946	200	+385	4.591	7	− 1	18.779	1	−0.134	349
23.493	0.7291	1.03146	200	+329	4.584	8	− 38	18.778	6	+0.215	349
24.490	0.7319	1.03346	201	+210	4.576	9	− 70	18.772	12	0.564	349
25.488	0.7346	+1.03547	202	+ 43	−4.567	9	− 88	+18.760	17	+0.913	349
26.485	0.7373	1.03749	201	−150	4.558	10	− 93	18.743	22	1.262	349
27.482	0.7400	1.03950	201	−336	4.548	10	− 78	18.721	28	1.611	348
28.479	0.7428	1.04151	202	−477	4.538	12	− 47	18.693	33	1.959	348
29.477	0.7455	1.04353	203	−541	4.526	12	− 4	18.660	40	2.307	348
30.474	0.7482	+1.04556	204	−504	−4.514	12	+ 43	+18.620	44	+2.655	347
Okt. 1.471	0.7510	1.04760	204	−368	4.502	13	+ 81	18.576	50	3.002	347
2.468	0.7537	1.04964	205	−156	4.489	14	+100	18.526	55	3.349	345
3.466	0.7564	1.05169	206	+ 85	4.475	14	+ 98	18.471	61	3.694	345
4.463	0.7592	1.05375	207	+300	4.461	15	+ 71	18.410	66	4.039	344
5.460	0.7619	+1.05582	208	+439	−4.446	15	+ 28	+18.344	73	+4.383	343
6.457	0.7646	1.05790	211	+473	4.431	16	− 23	18.271	77	4.726	342
7.455	0.7674	1.06001	212	+395	4.415	17	− 68	18.194	82	5.068	340
8.452	0.7701	1.06213	212	+233	4.398	17	− 98	18.112	88	5.408	339
9.449	0.7728	1.06425	214	+ 31	4.381	18	−102	18.024	93	5.747	337
10.447	0.7755	+1.06639	216	−157	−4.363	19	− 85	+17.931	99	+6.084	336
11.444	0.7783	1.06855	218	−290	4.344	19	− 50	17.832	105	6.420	334
12.441	0.7810	1.07073	220	−340	4.325	19	− 4	17.727	109	6.754	332
13.438	0.7837	1.07293	221	−301	4.306	20	+ 40	17.618	115	7.086	331
14.436	0.7865	1.07514	223	−190	4.286	21	+ 74	17.503	120	7.417	328
15.433	0.7892	+1.07737	226	− 37	−4.265	21	+ 92	+17.383	125	+7.745	326
16.430	0.7919	1.07963	227	+121	4.244	21	+ 93	17.258	131	8.071	324
17.427	0.7947	1.08190	230	+261	4.223	22	+ 78	17.127	136	8.395	322
18.425	0.7974	1.08420	232	+350	4.201	23	+ 50	16.991	141	8.717	318
19.422	0.8001	1.08652	235	+381	4.178	23	+ 12	16.850	145	9.035	317
20.419	0.8028	+1.08887	238	+348	−4.155	24	− 26	+16.705	151	+9.352	314
21.417	0.8056	1.09125	240	+250	4.131	24	− 60	16.554	156	9.666	311
22.414	0.8083	1.09365		+ 98	4.107		− 83	16.398		9.977	

$E = +0^s.0025$

Reduktionsgrößen 1916

für 0ʰ Sternzeit Greenwich

Mittlere Zeit Greenwich	*t*	*A*	Δ	*A'*	*B*	Δ	*B'*	*C*	Δ	*D*	Δ
Okt. 22.414	0.8083	+1.09365	243	+ 98	−4″.107	23	− 83	+16″.398	162	+ 9″.977	309
23.411	0.8110	1.09608	245	− 85	4.084	24	− 94	16.236	166	10.286	305
24.408	0.8138	1.09853	248	−276	4.060	25	− 86	16.070	171	10.591	303
25.406	0.8165	1.10101	250	−435	4.035	25	− 61	15.899	176	10.894	299
26.403	0.8192	1.10351	254	−525	4.010	26	− 21	15.723	180	11.193	296
27.400	0.8220	+1.10605	256	−522	−3.984	26	+ 24	+15.543	186	+11.489	293
28.397	0.8247	1.10861	258	−418	3.958	26	+ 65	15.357	191	11.782	289
29.395	0.8274	1.11119	262	−227	3.932	26	+ 94	15.166	195	12.071	286
30.392	0.8302	1.11381	265	+ 10	3.906	26	+102	14.971	200	12.357	283
31.389	0.8329	1.11646	268	+246	3.880	26	+ 86	14.771	204	12.640	278
Nov. 1.386	0.8356	+1.11914	272	+425	−3.854	27	+ 47	+14.567	209	+12.918	275
2.384	0.8383	1.12186	274	+501	3.827	27	− 3	14.358	213	13.193	271
3.381	0.8411	1.12460	278	+463	3.800	26	− 51	14.145	217	13.464	268
4.378	0.8438	1.12738	280	+325	3.774	27	− 88	13.928	223	13.732	263
5.376	0.8465	1.13018	283	+127	3.747	27	−103	13.705	226	13.995	258
6.373	0.8493	+1.13301	286	− 80	−3.720	28	− 94	+13.479	231	+14.253	254
7.370	0.8520	1.13587	289	−248	3.692	27	− 66	13.248	234	14.507	251
8.367	0.8547	1.13876	293	−336	3.665	27	− 24	13.014	239	14.758	246
9.365	0.8575	1.14169	297	−335	3.638	27	+ 24	12.775	243	15.004	242
10.362	0.8602	1.14466	300	−248	3.611	27	+ 63	12.532	247	15.246	237
11.359	0.8629	+1.14766	303	−108	−3.584	27	+ 88	+12.285	250	+15.483	232
12.356	0.8656	1.15069	305	+ 55	3.557	27	+ 96	12.035	255	15.715	226
13.354	0.8684	1.15374	309	+206	3.530	27	+ 84	11.780	258	15.941	223
14.351	0.8711	1.15683	311	+316	3.503	26	+ 61	11.522	262	16.164	218
15.348	0.8738	1.15994	314	+370	3.477	27	+ 27	11.260	266	16.382	213
16.346	0.8766	+1.16308	317	+360	−3.450	26	− 11	+10.994	269	+16.595	208
17.343	0.8793	1.16625	321	+283	3.424	26	− 47	10.725	272	16.803	203
18.340	0.8820	1.16946	325	+147	3.398	25	− 75	10.453	276	17.006	197
19.337	0.8848	1.17271	327	− 31	3.373	26	− 90	10.177	278	17.203	193
20.335	0.8875	1.17598	330	−223	3.347	25	− 89	9.899	282	17.396	187
21.332	0.8902	+1.17928	333	−399	−3.322	25	− 71	+ 9.617	286	+17.583	182
22.329	0.8930	1.18261	335	−519	3.297	24	− 39	9.331	289	17.765	176
23.326	0.8957	1.18596	338	−555	3.273	24	+ 5	9.042	291	17.941	171
24.324	0.8984	1.18934	341	−490	3.249	23	+ 50	8.751	294	18.112	164
25.321	0.9011	1.19275	343	−324	3.226	23	+ 84	8.457	296	18.276	160
26.318	0.9039	+1.19618	345	− 93	−3.203	23	+101	+ 8.161	300	+18.436	154
27.315	0.9066	1.19963	349	+157	3.180	23	+ 94	7.861	302	18.590	148
28.313	0.9093	1.20312		+370	3.157		+ 64	7.559		18.738	

$E = +0^s.0025$

Reduktionsgrößen 1916

für 0ʰ Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A		A'	B		B'	C		D	
Nov. 28.313	0.9093	+1.20312	351	+370	−3.157″	23	+ 64	+7.559″	304	+18.738″	143
29.310	0.9121	1.20663	353	+501	3.134	21	+ 18	7.255	306	18.881	136
30.307	0.9148	1.21016	355	+515	3.113	21	− 33	6.949	309	19.017	131
Dez. 1.305	0.9175	1.21371	358	+421	3.092	21	− 76	6.640	311	19.148	125
2.302	0.9203	1.21729	359	+241	3.071	20	−100	6.329	314	19.273	119
3.299	0.9230	+1.22088	361	+ 27	−3.051	20	−101	+6.015	315	+19.392	113
4.296	0.9257	1.22449	363	−165	3.031	20	− 79	5.700	317	19.505	106
5.294	0.9284	1.22812	365	−293	3.011	18	− 41	5.383	319	19.611	100
6.291	0.9312	1.23177	366	−332	2.993	17	+ 5	5.064	321	19.711	95
7.288	0.9339	1.23543	369	−281	2.976	17	+ 48	4.743	322	19.806	89
8.285	0.9366	+1.23912	370	−160	−2.959	17	+ 80	+4.421	323	+19.895	82
9.283	0.9394	1.24282	371	− 3	2.942	16	+ 95	4.098	325	19.977	75
10.280	0.9421	1.24653	373	+156	2.926	16	+ 91	3.773	326	20.052	70
11.277	0.9448	1.25026	374	+285	2.910	15	+ 71	3.447	327	20.122	64
12.275	0.9476	1.25400	375	+363	2.895	14	+ 40	3.120	329	20.186	57
13.272	0.9503	+1.25775	376	+373	−2.881	13	+ 3	+2.791	329	+20.243	51
14.269	0.9530	1.26151	377	+318	2.868	13	− 34	2.462	330	20.294	44
15.266	0.9558	1.26528	378	+202	2.855	12	− 65	2.132	331	20.338	38
16.264	0.9585	1.26906	378	+ 33	2.843	11	− 87	1.801	331	20.376	32
17.261	0.9612	1.27284	379	−161	2.832	11	− 92	1.470	332	20.408	25
18.258	0.9639	+1.27663	379	−352	−2.821	11	− 80	+1.138	333	+20.433	18
19.255	0.9667	1.28042	379	−502	2.810	9	− 54	0.805	332	20.451	12
20.253	0.9694	1.28421	380	−580	2.801	9	− 12	0.473	333	20.463	6
21.250	0.9721	1.28801	380	−558	2.792	8	+ 32	+0.140	333	20.469	0
22.247	0.9749	1.29181	379	−435	2.784	7	+ 72	−0.193	333	20.469	7
23.244	0.9776	+1.29560	379	−226	−2.777	7	+ 96	−0.526	333	+20.462	14
24.242	0.9803	1.29939	379	+ 27	2.770	6	+ 98	0.859	333	20.448	19
25.239	0.9831	1.30318	379	+267	2.764	5	+ 78	1.192	332	20.429	26
26.236	0.9858	1.30697	379	+445	2.759	5	+ 37	1.524	332	20.403	33
27.234	0.9885	1.31076	378	+517	2.754	4	− 12	1.856	331	20.370	39
28.231	0.9912	+1.31454	377	+475	−2.750	3	− 59	−2.187	330	+20.331	46
29.228	0.9940	1.31831	376	+334	2.747	2	− 93	2.517	330	20.285	52
30.225	0.9967	1.32207	375	+137	2.745	2	−103	2.847	329	20.233	58
31.223	0.9994	1.32582	374	− 65	2.743	1	− 90	3.176	328	20.175	64
32.220	1.0022	1.32956	373	−224	2.742	0	− 57	3.504	327	20.111	71
33.217	1.0049	+1.33329		−298	−2.742		− 15	−3.831		+20.040	

$E = +0\overset{s}{.}0025$

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Mittlere Zeit Greenwich	Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium			Rechtwinklige Sonnenkoordinaten, bezogen auf das Äquinoktium 1925.0		
	f	log *g*	*G*	*X*	*Y*	*Z*
1916						
Jan. 1.5	s —26.826	2.24328	h m s 12 7 2	+0.177357	—0.887278	—0.384885
5.5	26.779	2.24252	12 7 3	0.245704	0.873477	0.378896
9.5	26.733	2.24177	12 7 5	0.312817	0.855307	0.371012
13.5	26.688	2.24104	12 7 8	0.378349	0.832875	0.361280
17.5	26.644	2.24032	12 7 11	0.441981	0.806315	0.349760
21.5	—26.601	2.23963	12 7 15	+0.503417	—0.775766	—0.336511
25.5	26.560	2.23897	12 7 20	0.562372	0.741380	0.321597
29.5	26.520	2.23833	12 7 24	0.618561	0.703313	0.305084
Febr. 2.5	26.482	2.23771	12 7 29	0.671699	0.661743	0.287049
6.5	26.445	2.23711	12 7 33	0.721503	0.616881	0.267586
10.5	—26.410	2.23654	12 7 38	+0.767722	—0.568975	—0.246805
14.5	26.376	2.23599	12 7 43	0.810148	0.518284	0.224817
18.5	26.344	2.23547	12 7 47	0.848598	0.465067	0.201735
22.5	26.314	2.23497	12 7 51	0.882910	0.409582	0.177669
26.5	26.284	2.23448	12 7 54	0.912931	0.352089	0.152729
März 1.5	—26.256	2.23401	12 7 56	+0.938510	—0.292857	—0.127033
5.5	26.229	2.23356	12 7 58	0.959512	0.232184	0.100711
9.5	26.202	2.23312	12 7 59	0.975842	0.170388	0.073906
13.5	26.177	2.23270	12 8 0	0.987448	0.107787	0.046752
17.5	26.151	2.23228	12 7 59	0.994309	—0.044687	—0.019383
21.5	—26.126	2.23186	12 7 58	+0.996423	+0.018618	+0.008076
25.5	26.100	2.23144	12 7 55	0.993794	0.081847	0.035504
29.5	26.075	2.23101	12 7 52	0.986433	0.144708	0.062775
April 2.5	26.049	2.23057	12 7 48	0.974369	0.206898	0.089753
6.5	26.022	2.23012	12 7 43	0.957671	0.268104	0.116303
10.5	—25.995	2.22965	12 7 38	+0.936449	+0.328027	+0.142294
14.5	25.966	2.22917	12 7 32	0.910836	0.386390	0.167608
18.5	25.937	2.22867	12 7 25	0.880981	0.442938	0.192136
22.5	25.906	2.22815	12 7 19	0.847033	0.497432	0.215777
26.5	25.875	2.22761	12 7 11	0.809142	0.549636	0.238424
30.5	—25.841	2.22705	12 7 4	+0.767476	+0.599303	+0.259970
Mai 4.5	25.807	2.22646	12 6 56	0.722239	0.646190	0.280308
8.5	25.771	2.22585	12 6 48	0.673668	0.690079	0.299343
12.5	25.734	2.22522	12 6 41	0.622013	0.730779	0.316996
16.5	25.695	2.22456	12 6 33	0.567530	0.768126	0.333195

Mittlere Zeit Greenwich	Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium			Rechtwinklige Sonnenkoordinaten, bezogen auf das Äquinoktium 1925.0		
	f	log *g*	*G*	*X*	*Y*	*Z*
1916	s		h m s			
Mai 16.5	−25.695	2.22456	12 6 33	+0.567530	+0.768126	+0.333195
20.5	25.656	2.22388	12 6 26	0.510469	0.801976	0.347881
24.5	25.615	2.22318	12 6 20	0.451071	0.832192	0.360990
28.5	25.573	2.22246	12 6 13	0.389596	0.858627	0.372458
Juni 1.5	25.530	2.22173	12 6 8	0.326332	0.881150	0.382227
5.5	−25.486	2.22099	12 6 2	+0.261586	+0.899658	+0.390253
9.5	25.442	2.22023	12 5 58	0.195670	0.914077	0.396505
13.5	25.397	2.21946	12 5 54	0.128895	0.924364	0.400967
17.5	25.352	2.21869	12 5 51	+0.061552	0.930497	0.403630
21.5	25.307	2.21791	12 5 49	−0.006080	0.932454	0.404481
25.5	−25.262	2.21713	12 5 48	−0.073710	+0.930213	+0.403509
29.5	25.216	2.21636	12 5 47	0.141025	0.923767	0.400712
Juli 3.5	25.172	2.21559	12 5 47	0.207703	0.913142	0.396100
7.5	25.128	2.21482	12 5 48	0.273429	0.898391	0.389699
11.5	25.084	2.21407	12 5 50	0.337899	0.879599	0.381548
15.5	−25.042	2.21333	12 5 52	−0.400837	+0.856865	+0.371689
19.5	25.000	2.21261	12 5 55	0.461982	0.830289	0.360163
23.5	24.959	2.21191	12 5 58	0.521069	0.799969	0.347011
27.5	24.920	2.21123	12 6 1	0.577817	0.766019	0.332282
31.5	24.882	2.21057	12 6 5	0.631948	0.728587	0.316042
Aug. 4.5	−24.845	2.20993	12 6 9	−0.683199	+0.687846	+0.298368
8.5	24.809	2.20931	12 6 13	0.731328	0.643992	0.279346
12.5	24.775	2.20871	12 6 17	0.776128	0.597235	0.259067
16.5	24.742	2.20814	12 6 21	0.817413	0.547777	0.237615
20.5	24.711	2.20760	12 6 25	0.854993	0.495817	0.215076
24.5	−24.681	2.20707	12 6 29	−0.888673	+0.441571	+0.191543
28.5	24.652	2.20656	12 6 32	0.918271	0.385281	0.167123
Sept. 1.5	24.624	2.20607	12 6 34	0.943626	0.327213	0.141933
5.5	24.596	2.20559	12 6 36	0.964609	0.267646	0.116096
9.5	24.570	2.20512	12 6 37	0.981130	0.206864	0.089733
13.5	−24.545	2.20467	12 6 37	−0.993120	+0.145140	+0.062960
17.5	24.520	2.20423	12 6 37	1.000512	0.082733	0.035889
21.5	24.495	2.20379	12 6 35	1.003242	+0.019921	+0.008640
25.5	24.470	2.20335	12 6 33	1.001261	−0.043003	−0.018657
29.5	24.445	2.20290	12 6 30	0.994552	0.105729	0.045867

Mittlere Zeit Greenwich	Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium			Rechtwinklige Sonnenkoordinaten, bezogen auf das Äquinoktium 1925.0		
	f	log g	G	X	Y	Z
1916	s		h m s			
Sept. 29.5	−24.445	2.20290	12 6 30	−0.994552	−0.105729	−0.045867
Okt. 3.5	24.420	2.20245	12 6 26	0.983135	0.167943	0.072852
7.5	24.394	2.20199	12 6 21	0.967067	0.229338	0.099481
11.5	24.368	2.20152	12 6 16	0.946430	0.289632	0.125634
15.5	24.341	2.20103	12 6 9	0.921305	0.348556	0.151195
19.5	−24.312	2.20052	12 6 2	−0.891779	−0.405832	−0.176043
23.5	24.283	2.19999	12 5 54	0.857962	0.461178	0.200053
27.5	24.252	2.19943	12 5 46	0.819991	0.514307	0.223098
31.5	24.220	2.19885	12 5 37	0.778045	0.564935	0.245057
Nov. 4.5	24.186	2.19824	12 5 28	0.732336	0.612802	0.265819
8.5	−24.151	2.19760	12 5 20	−0.683093	−0.657684	−0.285286
12.5	24.115	2.19693	12 5 11	0.630541	0.699371	0.303371
16.5	24.076	2.19623	12 5 2	0.574908	0.737662	0.319983
20.5	24.036	2.19550	12 4 53	0.516443	0.772352	0.335032
24.5	23.995	2.19475	12 4 45	0.455417	0.803248	0.348434
28.5	−23.953	2.19398	12 4 37	−0.392136	−0.830169	−0.360108
Dez. 2.5	23.909	2.19319	12 4 30	0.326931	0.852972	0.369998
6.5	23.864	2.19238	12 4 24	0.260136	0.871555	0.378058
10.5	23.819	2.19155	12 4 18	0.192069	0.885836	0.384254
14.5	23.773	2.19070	12 4 14	0.123048	0.895743	0.388555
18.5	−23.726	2.18984	12 4 10	−0.053399	−0.901216	−0.390930
22.5	23.679	2.18898	12 4 8	+0.016539	0.902206	0.391358
26.5	23.633	2.18812	12 4 6	0.086405	0.898687	0.389829
30.5	23.586	2.18727	12 4 5	0.155826	0.890676	0.386351
31.5	23.575	2.18706	12 4 5	0.173069	0.887977	0.385180

Red. in $\alpha = f + {}^1/_{15}\, g \sin(G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = g \cos(G + \alpha)$

Korrektion der Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium (s. S. 258*/260*), berechnet für 1916.5 mit Hinzufügung ihrer einjährigen Änderung, in 0s.001

Für Rektaszension

α	δ +60°	+50°	+30°	+10°	−10°	−30°	−50°	−60°
0h	+19 −5	+14 −3	+7 −2	+3 −1	−1 +0	−6 +1	−12 +3	−18 +4
1	+27 −6	+18 −4	+9 −2	+4 −1	+0 −0	−3 +1	− 7 +2	− 9 +2
2	+31 −7	+19 −5	+9 −2	+4 −1	+1 −0	−1 +0	− 3 +1	− 1 +0
3	+30 −7	+19 −4	+9 −2	+4 −1	+2 −0	+0 −0	+ 1 −0	+ 4 −1
4	+24 −6	+15 −3	+7 −2	+4 −1	+2 −0	+1 −0	+ 2 −1	+ 6 −1
5	+13 −3	+ 8 −2	+4 −1	+2 −1	+1 −0	+1 −0	+ 2 −0	+ 4 −1
6	+ 0 −0	+ 0 −0	+1 −0	+1 −0	+1 −0	+1 −0	+ 1 −0	+ 1 −0
7	−13 +3	− 7 +2	−3 +1	−1 +0	−0 +0	+0 −0	− 0 +0	− 2 +1
8	−23 +5	−14 +3	−6 +1	−2 +1	−1 +0	+1 −0	− 0 +0	− 4 +1
9	−29 +7	−18 +4	−8 +2	−3 +1	−0 +0	+1 −0	+ 1 −0	− 2 +1
10	−30 +7	−18 +4	−8 +2	−3 +1	+0 −0	+3 −1	+ 4 −1	+ 3 −1
11	−26 +6	−16 +4	−7 +2	−2 +1	+1 −0	+5 −1	+ 9 −2	+11 −3
12	−18 +4	−12 +3	−6 +1	−1 +0	+3 −1	+7 −2	+14 −3	+19 −5
13	− 9 +2	− 7 +2	−3 +1	+0 −0	+4 −1	+9 −2	+18 −4	+27 −6
14	− 1 +0	− 3 +1	−1 +0	+1 −0	+4 −1	+9 −2	+19 −5	+31 −7
15	+ 4 −1	+ 1 −0	+0 −0	+2 −0	+4 −1	+9 −2	+19 −4	+30 −7
16	+ 6 −1	+ 2 −1	+1 −0	+2 −0	+4 −1	+7 −2	+15 −3	+24 −6
17	+ 4 −1	+ 2 −0	+1 −0	+1 −0	+2 −1	+4 −1	+ 8 −2	+13 −3
18	+ 1 −0	+ 1 −0	+1 −0	+1 −0	+1 −0	+1 −0	+ 0 −0	+ 0 −0
19	− 2 +1	− 0 +0	+0 −0	−0 +0	−1 +0	−3 +1	− 7 +2	−13 +3
20	− 4 +1	− 0 +0	+1 −0	−1 +0	−2 +1	−6 +1	−14 +3	−23 +5
21	− 2 +1	+ 1 −0	+1 −0	−0 +0	−3 +1	−8 +2	−18 +4	−29 +7
22	+ 3 −1	+ 4 −1	+3 −1	+0 −0	−3 +1	−8 +2	−18 +4	−30 +7
23	+11 −3	+ 9 −2	+5 −1	+1 −0	−2 +1	−7 +2	−16 +4	−26 +6
24	+19 −5	+14 −3	+7 −2	+3 −1	−1 +0	−6 +1	−12 +3	−18 +4

Korrektion der Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium (s. S. 258*/260*), berechnet für 1916.5 mit Hinzufügung ihrer einjährigen Änderung, in 0″.01

Für Deklination

α	δ															
	+ 60°		+ 50°		+ 30°		+ 10°		− 10°		− 30°		− 50°		− 60°	
0^h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	− 5	+1	− 5	+1	− 5	+1	− 5	+1	− 4	+1	− 4	+1	− 4	+1	− 4	+1
2	−11	+3	−10	+2	− 9	+2	− 9	+2	− 8	+2	− 7	+2	− 6	+1	− 5	+1
3	−16	+4	−16	+4	−14	+3	−12	+3	−11	+3	−10	+2	− 7	+2	− 6	+1
4	−23	+5	−20	+5	−17	+4	−15	+3	−13	+3	−11	+3	− 8	+2	− 5	+1
5	−27	+6	−23	+5	−19	+5	−17	+4	−15	+3	−12	+3	− 8	+2	− 4	+1
6	−28	+7	−25	+6	−20	+5	−17	+4	−15	+3	−12	+3	− 8	+2	− 4	+1
7	−27	+6	−23	+5	−19	+4	−17	+4	−14	+3	−12	+3	− 8	+2	− 4	+1
8	−23	+5	−20	+5	−17	+4	−15	+3	−13	+3	−11	+2	− 8	+2	− 5	+1
9	−17	+4	−15	+4	−13	+3	−12	+3	−11	+2	− 9	+2	− 7	+2	− 5	+1
10	−11	+3	−10	+2	− 9	+2	− 8	+2	− 8	+2	− 7	+2	− 6	+1	− 5	+1
11	− 5	+1	− 4	+1	− 4	+1	− 4	+1	− 4	+1	− 4	+1	− 3	+1	− 3	+1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+ 4	−1	+ 4	−1	+ 4	−1	+ 4	−1	+ 5	−1	+ 5	−1	+ 5	−1	+ 5	−1
14	+ 5	−1	+ 6	−1	+ 7	−2	+ 8	−2	+ 9	−2	+ 9	−2	+10	−2	+11	−3
15	+ 6	−1	+ 7	−2	+10	−2	+11	−3	+12	−3	+14	−3	+16	−4	+16	−4
16	+ 5	−1	+ 8	−2	+11	−3	+13	−3	+15	−3	+17	−4	+20	−5	+23	−5
17	+ 4	−1	+ 8	−2	+12	−3	+15	−3	+17	−4	+19	−5	+23	−5	+27	−6
18	+ 4	−1	+ 8	−2	+12	−3	+15	−3	+17	−4	+20	−5	+25	−6	+28	−7
19	+ 4	−1	+ 8	−2	+12	−3	+14	−3	+17	−4	+19	−4	+23	−5	+27	−6
20	+ 5	−1	+ 8	−2	+11	−2	+13	−3	+15	−3	+17	−4	+20	−5	+23	−5
21	+ 5	−1	+ 7	−2	+ 9	−2	+11	−2	+12	−3	+13	−3	+15	−4	+17	−4
22	+ 5	−1	+ 6	−1	+ 7	−2	+ 8	−2	+ 8	−2	+ 9	−2	+10	−2	+11	−3
23	+ 3	−1	+ 3	−1	+ 4	−1	+ 4	−1	+ 4	−1	+ 4	−1	+ 4	−1	+ 5	−1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Übertragung mittlerer Polsternörter				Präzession nach Newcomb		
			von dem Äquinoktium t_0			

t_0	ζ_0	z	Θ	$m^s\tau$	$\log[n^s\tau]$	$\log[n''\tau]$
1755	+61′ 47″.45	+61′ 49″.50	+53′ 48″.25	+8m 14s.453	2.332900	3.508991
1790	48 21.94	48 23.19	42 6.32	6 27.004	2.226412	3.402503
1800	44 31.75	44 32.81	38 45.78	5 56.300	2.190490	3.366581
1810	40 41.54	40 42.42	35 25.25	5 25.595	2.151329	3.327420
1825	34 56.18	34 56.83	30 24.46	4 39.533	2.085050	3.261141
1830	+33 1.05	+33 1.64	+28 44.20	+4 24.178	2.060503	3.236594
1835	31 5.92	31 6.44	27 3.94	4 8.823	2.034485	3.210576
1840	29 10.78	29 11.23	25 23.68	3 53.467	2.006810	3.182901
1845	27 15.63	27 16.03	23 43.43	3 38.110	1.977249	3.153340
1850	25 20.48	25 20.83	22 3.17	3 22.753	1.945530	3.121621
1855	+23 25.32	+23 25.62	+20 22.91	+3 7.396	1.911311	3.087402
1860	21 30.16	21 30.41	18 42.67	2 52.038	1.874165	3.050256
1865	19 34.99	19 35.20	17 2.42	2 36.680	1.833542	3.009633
1870	17 39.83	17 40.00	15 22.18	2 21.322	1.78873	2.96482
1875	15 44.65	15 44.79	13 41.93	2 5.962	1.73875	2.91484
1880	+13 49.47	+13 49.57	+12 1.69	+1 50.603	1.68226	2.85835
1885	11 54.28	11 54.36	10 21.45	1 35.243	1.61732	2.79341
1890	9 59.09	9 59.14	8 41.21	1 19.882	1.54092	2.71701
1895	8 3.89	8 3.93	7 0.97	1 4.521	1.44816	2.62425
1900	6 8.69	6 8.71	5 20.74	0 49.160	1.33006	2.50615
1905	+ 4 13.48	+ 4 13.49	+ 3 40.51	+0 33.798	1.16733	2.34342
1910	2 18.26	2 18.27	2 0.27	0 18.435	0.90408	2.08017
1915	0 23.04	0 23.05	0 20.05	0 3.073	0.12593	1.30202

Sind α_0, δ_0 die Koordinaten für t_0, und α, δ jene für 1916.0, so hat man

$$a_0 = \alpha_0 + \zeta_0$$

$$p = (\operatorname{tang}\delta_0 + \cos a_0 \operatorname{tang}\tfrac{1}{2}\Theta)\sin\Theta$$

$$\operatorname{tang}\Delta a = \frac{p\sin a_0}{1 - p\cos a_0}$$

$$\alpha = a_0 + z + \Delta a$$

$$\operatorname{tang}\tfrac{1}{2}(\delta - \delta_0) = \cos(a_0 + \tfrac{1}{2}\Delta a)\sec\tfrac{1}{2}\Delta a \operatorname{tang}\tfrac{1}{2}\Theta$$

oder, fast immer ausreichend genau:

$$\delta = \delta_0 + \Theta\cos(a_0 + \tfrac{1}{2}\Delta a)\sec\tfrac{1}{2}\Delta a.$$

$\tau = t - t_0$, $t = 1916.0$

m und n sind die Newcombschen Konstanten für die Epoche

$$\tfrac{1}{2}(t_0 + t).$$

Ist α', δ' der genäherte Sternort für die Zeit $\frac{1}{2}(t_0 + t)$, so ist

$$\alpha = \alpha_0 + [m^s(t - t_0)] + [n^s(t - t_0)]\sin\alpha' \operatorname{tg}\delta'$$

$$\delta = \delta_0 + [n''(t - t_0)]\cos\alpha'.$$

α	0^h, 12^h		1^h, 13^h		2^h, 14^h		3^h, 15^h		4^h, 16^h		5^h, 17^h	
m	$+A_1-$	$+D-$	$+A_1-$	$+D-$	$+A_1-$	$+D-$	$+A_1-$	$+D-$	$+A_1-$	$+D-$	$+A_1-$	$+D-$
	s	″	s	″	s	″	s	″	s	″	s	″
0	0.012	180.41	3.124	174.21	6.024	156.15	8.513	127.44	10.422	90.04	11.621	46.52
1	065	180.40	175	174.01	069	155.75	550	126.88	448	89.36	634	45.76
2	117	180.40	226	173.80	115	155.35	587	126.32	474	88.68	647	44.99
3	169	180.39	276	173.58	160	154.95	623	125.76	499	87.99	660	44.23
4	222	180.38	327	173.37	205	154.54	660	125.19	525	87.30	673	43.47
5	275	180.36	377	173.15	250	154.14	696	124.62	550	86.61	686	42.70
6	327	180.34	427	172.92	294	153.73	732	124.05	575	85.92	698	41.94
7	379	180.32	478	172.70	339	153.31	768	123.47	600	85.23	710	41.17
8	432	180.29	528	172.47	384	152.90	804	122.90	625	84.54	722	40.40
9	484	180.26	578	172.24	428	152.48	840	122.33	649	83.84	733	39.64
10	0.537	180.23	3.628	172.00	6.472	152.05	8.875	121.75	10.674	83.14	11.745	38.87
11	589	180.19	678	171.76	516	151.63	911	121.16	698	82.44	756	38.10
12	641	180.15	728	171.52	560	151.20	946	120.58	722	81.74	767	37.33
13	694	180.11	778	171.27	604	150.77	8.981	119.99	745	81.04	778	36.56
14	746	180.06	828	171.02	648	150.34	9.016	119.40	769	80.33	788	35.79
15	799	180.01	877	170.77	692	149.90	050	118.81	792	79.63	798	35.02
16	851	179.95	927	170.52	735	149.46	085	118.21	815	78.92	808	34.24
17	903	179.90	3.977	170.26	779	149.02	119	117.62	838	78.21	818	33.47
18	0.956	179.84	4.026	170.00	822	148.57	153	117.02	861	77.50	828	32.70
19	1.008	179.77	075	169.73	865	148.13	187	116.42	883	76.79	837	31.92
20	1.060	179.70	4.125	169.46	6.908	147.68	9.221	115.82	10.905	76.08	11.846	31.15
21	112	179.63	174	169.19	951	147.22	255	115.21	927	75.36	855	30.37
22	165	179.56	223	168.92	6.994	146.76	288	114.61	949	74.65	864	29.59
23	217	179.48	272	168.64	7.037	146.30	321	114.00	971	73.93	873	28.82
24	269	179.40	321	168.36	079	145.84	354	113.39	10.992	73.21	881	28.04
25	321	179.31	370	168.08	121	145.38	387	112.78	11.013	72.49	889	27.26
26	373	179.22	419	167.79	164	144.91	420	112.16	034	71.77	897	26.48
27	426	179.13	468	167.50	206	144.44	453	111.54	055	71.05	904	25.70
28	478	179.04	517	167.20	248	143.97	485	110.92	076	70.32	912	24.93
29	530	178.94	565	166.90	290	143.49	517	110.30	096	69.60	919	24.15
30	1.582	178.84	4.614	166.60	7.331	143.02	9.549	109.68	11.116	68.87	11.926	23.36
31	634	178.73	662	166.30	373	142.54	581	109.06	136	68.14	932	22.58
32	686	178.62	710	165.99	414	142.05	612	108.43	156	67.41	939	21.80
33	738	178.51	759	165.68	455	141.56	644	107.80	175	66.68	945	21.01
34	790	178.40	807	165.37	496	141.07	675	107.17	195	65.95	951	20.24
35	841	178.28	855	165.05	537	140.58	706	106.53	214	65.22	957	19.46
36	893	178.16	903	164.73	578	140.09	737	105.89	233	64.48	962	18.68
37	945	178.03	951	164.41	619	139.59	768	105.25	251	63.75	968	17.89
38	1.997	177.90	4.999	164.09	660	139.09	798	104.61	270	63.01	973	17.11
39	2.049	177.77	5.046	163.76	700	138.59	829	103.97	288	62.27	978	16.32
40	2.100	177.64	5.094	163.43	7.740	138.08	9.859	103.33	11.306	61.53	11.983	15.54
41	152	177.50	141	163.09	780	137.57	889	102.68	324	60.79	987	14.76
42	204	177.35	189	162.75	820	137.06	919	102.03	341	60.05	991	13.97
43	255	177.20	236	162.41	860	136.55	948	101.38	359	59.31	995	13.19
44	307	177.05	283	162.07	900	136.03	9.978	100.73	376	58.56	11.999	12.40
45	358	176.90	330	161.72	939	135.52	10.007	100.08	393	57.82	12.002	11.62
46	410	176.75	377	161.37	7.978	135.00	036	99.42	410	57.07	005	10.83
47	461	176.59	424	161.02	8.018	134.47	065	98.76	426	56.32	008	10.04
48	512	176.43	471	160.66	057	133.95	093	98.10	442	55.58	011	9.26
49	564	176.26	518	160.30	096	133.42	122	97.44	458	54.83	014	8.47
50	2.615	176.09	5.564	159.94	8.135	132.90	10.150	96.78	11.474	54.08	12.016	7.69
51	666	175.92	611	159.57	173	132.36	178	96.11	490	53.32	018	6.90
52	717	175.74	657	159.20	211	131.82	206	95.45	505	52.57	020	6.11
53	768	175.56	703	158.83	250	131.28	234	94.78	520	51.82	022	5.32
54	819	175.38	749	158.46	288	130.74	261	94.11	535	51.06	023	4.53
55	870	175.19	795	158.08	326	130.20	288	93.43	550	50.31	025	3.75
56	921	175.00	841	157.70	363	129.65	315	92.76	564	49.55	026	2.96
57	2.972	174.81	887	157.31	401	129.10	342	92.08	579	48.80	026	2.18
58	3.023	174.61	933	156.93	439	128.55	369	91.42	593	48.04	027	1.39
59	074	174.41	5.979	156.54	476	127.99	395	90.73	607	47.28	027	0.60
60	3.124	174.21	6.024	156.15	8.513	127.44	10.422	90.04	11.621	46.52	12.027	

α	6^h, 18^h		7^h, 19^h		8^h, 20^h		9^h, 21^h		10^h, 22^h		11^h, 23^h	
m	$+A_1-$	$-D+$	$+A_1-$	$-D+$	$+A_1-$	$-D+$	$+A_1-$	$-D+$	$+A_1-$	$-D+$	$+A_1-$	$-D+$
	s	"	s	"	s	"	s	"	s	"	s	"
0	12.027	0.18	11.614	46.86	10.410	90.36	8.496	127.69	6.003	156.33	3.101	174.31
1	027	0.97	600	47.62	383	91.04	459	128.25	5.957	156.72	050	174.51
2	027	1.76	586	48.38	357	91.72	421	128.80	912	157.11	3.000	174.70
3	026	2.54	572	49.14	330	92.39	384	129.35	866	157.49	2.949	174.90
4	025	3.33	558	49.90	303	93.07	346	129.90	820	157.87	898	175.09
5	024	4.12	543	50.66	276	93.74	308	130.44	774	158.25	847	175.28
6	023	4.91	528	51.41	248	94.42	270	130.99	728	158.63	796	175.46
7	021	5.69	513	52.17	221	95.09	232	131.53	682	159.00	745	175.64
8	019	6.48	498	52.92	193	95.75	193	132.06	636	159.37	694	175.82
9	017	7.26	482	53.67	165	96.42	155	132.60	589	159.74	642	176.00
10	12.015	8.05	11.467	54.42	10.137	97.09	8.117	133.13	5.543	160.11	2.591	176.17
11	013	8.84	451	55.17	109	97.75	078	133.66	496	160.47	540	176.34
12	010	9.62	435	55.92	080	98.41	039	134.19	449	160.82	489	176.50
13	007	10.41	418	56.67	051	99.07	8.000	134.72	403	161.18	437	176.66
14	004	11.19	402	57.41	10.022	99.72	7.960	135.24	356	161.53	386	176.82
15	12.000	11.98	385	58.16	9.993	100.38	921	135.76	309	161.88	334	176.97
16	11.997	12.77	368	58.91	964	101.03	881	136.27	261	162.23	283	177.12
17	993	13.55	351	59.65	935	101.68	842	136.79	214	162.57	231	177.27
18	989	14.34	333	60.39	905	102.33	802	137.30	167	162.91	180	177.42
19	985	15.12	315	61.13	875	102.98	762	137.81	119	163.25	128	177.56
20	11.980	15.90	11.297	61.87	9.845	103.63	7.722	138.32	5.072	163.58	2.076	177.70
21	976	16.69	279	62.61	815	104.27	681	138.82	5.024	163.91	2.025	177.83
22	971	17.47	261	63.35	784	104.91	641	139.32	4.977	164.24	1.973	177.96
23	965	18.26	243	64.09	754	105.55	600	139.82	929	164.56	921	178.09
24	960	19.04	224	64.82	723	106.19	559	140.32	881	164.88	869	178.21
25	954	19.82	205	65.55	692	106.83	518	140.81	833	165.20	817	178.33
26	948	20.60	186	66.29	661	107.46	477	141.30	785	165.52	766	178.45
27	942	21.39	166	67.02	629	108.09	436	141.79	736	165.83	714	178.57
28	936	22.17	147	67.75	598	108.72	395	142.27	688	166.14	662	178.68
29	929	22.95	127	68.48	566	109.34	354	142.75	640	166.44	610	178.78
30	11.922	23.73	11.107	69.20	9.534	109.97	7.312	143.24	4.591	166.74	1.558	178.88
31	915	24.51	087	69.93	502	110.59	270	143.71	543	167.04	506	178.98
32	908	25.29	066	70.66	470	111.21	228	144.19	494	167.34	454	179.08
33	901	26.07	046	71.38	438	111.83	186	144.66	446	167.63	401	179.18
34	893	26.84	025	72.10	405	112.45	144	145.13	397	167.92	349	179.27
35	885	27.62	11.004	72.82	372	113.06	102	145.60	348	168.20	297	179.36
36	877	28.40	10.983	73.54	339	113.67	059	146.06	299	168.49	245	179.44
37	869	29.18	961	74.26	306	114.28	7.017	146.52	250	168.77	193	179.52
38	860	29.95	939	74.98	273	114.89	6.974	146.98	201	169.05	141	179.59
39	851	30.73	917	75.69	239	115.50	931	147.43	151	169.33	088	179.66
40	11.842	31.51	10.895	76.41	9.205	116.10	6.888	147.88	4.102	169.59	1.036	179.73
41	833	32.28	873	77.12	172	116.70	845	148.33	053	169.86	0.984	179.80
42	824	33.05	850	77.83	138	117.30	802	148.78	4.003	170.12	931	179.86
43	814	33.83	827	78.54	103	117.90	759	149.22	3.954	170.38	879	179.92
44	804	34.60	804	79.25	069	118.49	715	149.66	904	170.64	827	179.98
45	794	35.37	781	79.95	034	119.09	672	150.10	855	170.89	774	180.03
46	783	36.14	758	80.66	9.000	119.68	628	150.54	805	171.14	722	180.08
47	773	36.92	734	81.36	8.965	120.26	584	150.97	755	171.38	670	180.13
48	762	37.69	711	82.06	930	120.85	540	151.40	705	171.63	617	180.17
49	751	38.46	687	82.76	894	121.43	496	151.83	655	171.87	565	180.21
50	11.740	39.22	10.663	83.46	8.859	122.01	6.452	152.25	3.605	172.11	0.512	180.24
51	728	39.99	638	84.16	824	122.59	408	152.67	555	172.34	460	180.27
52	716	40.76	614	84.86	788	123.17	363	153.09	505	172.57	408	180.30
53	704	41.53	589	85.55	752	123.74	318	153.50	454	172.80	355	180.33
54	692	42.29	564	86.24	716	124.32	274	153.92	404	173.03	303	180.35
55	680	43.06	539	86.93	680	124.88	229	154.32	354	173.25	250	180.37
56	667	43.82	513	87.62	644	125.45	184	154.73	303	173.47	198	180.38
57	654	44.58	488	88.31	607	126.01	139	155.13	253	173.68	145	180.39
58	641	45.34	462	88.99	570	126.58	094	155.53	202	173.89	093	180.40
59	628	46.10	436	89.68	533	127.14	048	155.93	152	174.10	0.040	180.41
60	11.614	46.86	10.410	90.36	8.496	127.69	6.003	156.33	3.101	174.31		180.41

Übertragung von Sternörtern vom mittleren Äquinoktium 1916.0 auf das Normal-Äquinoktium 1925.0 (Fortsetzung).

α	A	A_2	D_1	α	α	A	A_2	D_1	α
h m	s	s	"	h m	h m	s	s	"	h m
0 0	+27.654	+0.0000	−0.000	12 0	6 0	+27.654	−0.0000	−0.079	18 0
10	655	04	000	10	10	654	04	079	10
20	655	09	001	20	20	654	09	078	20
30	655	14	001	30	30	654	14	078	30
40	655	18	002	40	40	653	18	077	40
50	655	22	004	50	50	653	22	075	50
1 0	+27.656	+0.0026	−0.005	13 0	7 0	+27.653	−0.0026	−0.074	19 0
10	656	30	007	10	10	653	30	072	10
20	656	34	009	20	20	653	34	070	20
30	656	37	012	30	30	653	37	067	30
40	656	40	014	40	40	652	40	065	40
50	657	43	017	50	50	652	43	062	50
2 0	+27.657	+0.0046	−0.020	14 0	8 0	+27.652	−0.0046	−0.059	20 0
10	657	48	023	10	10	652	48	056	10
20	657	50	026	20	20	652	50	053	20
30	657	51	029	30	30	652	51	050	30
40	657	52	033	40	40	652	52	046	40
50	657	52	036	50	50	652	52	043	50
3 0	+27.657	+0.0053	−0.039	15 0	9 0	+27.652	−0.0053	−0.039	21 0
10	657	52	043	10	10	652	52	036	10
20	657	52	046	20	20	652	52	033	20
30	657	51	050	30	30	652	51	029	30
40	657	50	053	40	40	652	50	026	40
50	657	48	056	50	50	652	48	023	50
4 0	+27.657	+0.0046	−0.059	16 0	10 0	+27.652	−0.0046	−0.020	22 0
10	657	43	062	10	10	652	43	017	10
20	656	40	065	20	20	652	40	014	20
30	656	37	067	30	30	653	37	012	30
40	656	34	070	40	40	653	34	009	40
50	656	30	072	50	50	653	30	007	50
5 0	+27.656	+0.0026	−0.074	17 0	11 0	+27.653	−0.0026	−0.005	23 0
10	655	22	075	10	10	653	22	004	10
20	655	18	077	20	20	653	18	002	20
30	655	14	078	30	30	654	14	001	30
40	655	09	078	40	40	654	09	001	40
50	655	05	079	50	50	654	05	000	50
6 0	+27.654	+0.0000	−0.079	18 0	12 0	+27.654	−0.0000	−0.000	24 0

$$\alpha_{1925} = \alpha_{1916} + A + A_1 \operatorname{tg} \delta_{1916} + A_2 \operatorname{tg}^2 \delta_{1916}$$
$$\delta_{1925} = \delta_{1916} + D + D_1 \operatorname{tg} \delta_{1916}$$

A_1 und D sind in der Tafel (S. 264*/265*) mit dem Argument α_{1916} zu entnehmen; für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten.

Finsternisse, Sternbedeckungen, Trabanten

Konstellationen, Hülfstafeln

1916

Im Jahre 1916 finden drei Sonnen- und zwei Mondfinsternisse statt.

I. Partielle Mondfinsternis 1916 Januar 19

Opposition in Rektaszension Jan. 19, $20^h 5^m 19^s.1$ Mittl. Zt. Greenwich

Rektaszension des Mondes	8^h 4^m $20^s.92$
Stündliche Änderung	2 3.78
Rektaszension der Sonne	20 4 20.92
Stündliche Änderung	10.62
Deklination des Mondes	$+21°$ $15'$ $3''.7$
Stündliche Änderung	— 8 51.5
Deklination der Sonne	—20 22 49.5
Stündliche Änderung	+ 31.4
Äquatorialhorizontalparallaxe des Mondes . . .	54 28.1
» der Sonne	8.9
Halbmesser des Mondes	14 49.8
» der Sonne	16 15.3

Anfang der Finsternis . . . . Jan. 19,	19^h $55^m.0$	Mittl. Zt. Greenwich
Mitte » »	20 39.5	» » »
Ende » »	21 24.0	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

116° 7′	westliche Länge von Greenwich,	21° 17′	nördliche Breite
126 54	» » » »	21 10	» »
137 41	» » » »	21 3	» »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 175°
» » Austritts » » » = 220
Größe der Verfinsterung in Teilen des Monddurchmessers = 0.137

Der Anfang der Finsternis ist sichtbar in Westeuropa, im nördlichen Teile des Atlantischen Ozeans, in Amerika und dem Stillen Ozean; das Ende der Finsternis ist sichtbar in Nordamerika, im nördlichen Teile des Atlantischen Ozeans, im nordwestlichen Teile von Südamerika, in Nordostasien und dem Stillen Ozean.

In Deutschland geht der Mond schon vor dem Anfang der Finsternis unter.

II. Totale Sonnenfinsternis 1916 Februar 3

Konjunktion in Rektaszension Febr. 3, $4^h 21^m 39^s.2$ Mittl. Zt. Greenwich

Rektaszension des Mondes	$21^h 3^m 58^s.74$
Stündliche Änderung	2 22.67
Rektaszension der Sonne	21 3 58.74
Stündliche Änderung	10.15
Deklination des Mondes	$-16° 13' 52''.3$
Stündliche Änderung	+ 13 45.9
Deklination der Sonne	−16 46 18.2
Stündliche Änderung	+ 43.6
Äquatorialhorizontalparallaxe des Mondes . .	60 19.4
» der Sonne . . .	8.9
Halbmesser des Mondes	16 25.4
» der Sonne	16 13.5

	Mittl. Zeit Greenwich	Länge von Greenwich	Geographische Breite
Beginn der Finsternis überhaupt .	$1^h 26^m.9$	110° 2' W.	− 2° 58'
Beginn der totalen Finsternis . .	2 28.7	121 48 W.	+ 7 19
Beginn der zentralen Finsternis . .	2 29.1	122 9 W.	+ 7 30
Zentrale Finsternis im wahren Mittag	4 21.7	61 57 W.	+15 57
Ende der zentralen Finsternis . .	5 31.0	9 3 W.	+49 38
Ende der totalen Finsternis . . .	5 31.4	9 27 W.	+49 26
Ende der Finsternis überhaupt . .	6 33.4	18 3 W.	+39 31

Die Finsternis ist sichtbar im westlichen Europa, nordwestlichen Afrika, in der nördlichen Hälfte des Atlantischen Ozeans, in der nördlichen Hälfte Südamerikas, in Nordamerika mit Ausnahme des Nordwestens und im angrenzenden Teile des Stillen Ozeans. Die Totalitätszone verläuft von dem Stillen Ozean über den äußersten Nordwesten Südamerikas und den Atlantischen Ozean und endigt wenige Grad südlich von Irland.

In Deutschland ist die Finsternis nicht mehr zu sehen.

Elemente der totalen Sonnenfinsternis 1916 Februar 3

Mittl. Zeit Greenwich	x	y	log sin d	log cos d	μ	l_a	l_i
h m 1 20	−1.60070	−0.11678	9.46115$_n$	9.98104	16° 31.7′	+0.54225	−0.00365
30	1.51258	0.08073	9.46110$_n$	9.98104	19 1.7	0.54227	0.00362
40	1.42445	0.04467	9.46105$_n$	9.98105	21 31.7	0.54230	0.00360
50	1.33633	−0.00861	9.46100$_n$	9.98105	24 1.7	0.54232	0.00358
2 0	−1.24821	+0.02746	9.46095$_n$	9.98106	26 31.7	+0.54234	−0.00356
10	1.16009	0.06354	9.46091$_n$	9.98106	29 1.7	0.54236	0.00353
20	1.07196	0.09962	9.46086$_n$	9.98106	31 31.7	0.54239	0.00351
30	0.98384	0.13571	9.46081$_n$	9.98107	34 1.7	0.54241	0.00349
40	0.89572	0.17180	9.46076$_n$	9.98107	36 31.7	0.54243	0.00347
50	0.80760	0.20790	9.46071$_n$	9.98108	39 1.7	0.54245	0.00345
3 0	−0.71948	+0.24400	9.46066$_n$	9.98108	41 31.7	+0.54246	−0.00344
10	0.63136	0.28011	9.46062$_n$	9.98109	44 1.7	0.54248	0.00342
20	0.54324	0.31622	9.46057$_n$	9.98109	46 31.7	0.54250	0.00340
30	0.45512	0.35234	9.46052$_n$	9.98110	49 1.7	0.54252	0.00338
40	0.36701	0.38846	9.46047$_n$	9.98110	51 31.7	0.54253	0.00337
50	0.27890	0.42459	9.46042$_n$	9.98110	54 1.7	0.54255	0.00335
4 0	−0.19078	+0.46072	9.46037$_n$	9.98111	56 31.7	+0.54256	−0.00334
10	0.10268	0.49686	9.46032$_n$	9.98111	59 1.7	0.54257	0.00333
20	−0.01457	0.53300	9.46028$_n$	9.98112	61 31.7	0.54259	0.00331
30	+0.07353	0.56915	9.46023$_n$	9.98112	64 1.7	0.54260	0.00330
40	0.16163	0.60530	9.46018$_n$	9.98113	66 31.7	0.54261	0.00329
50	0.24973	0.64145	9.46013$_n$	9.98113	69 1.7	0.54262	0.00328
5 0	+0.33782	+0.67761	9.46008$_n$	9.98114	71 31.7	+0.54263	−0.00327
10	0.42591	0.71377	9.46003$_n$	9.98114	74 1.7	0.54264	0.00326
20	0.51399	0.74994	9.45999$_n$	9.98114	76 31.7	0.54265	0.00325
30	0.60207	0.78611	9.45994$_n$	9.98115	79 1.7	0.54266	0.00324
40	0.69015	0.82228	9.45989$_n$	9.98115	81 31.7	0.54266	0.00324
50	0.77822	0.85846	9.45984$_n$	9.98116	84 1.7	0.54267	0.00323
6 0	+0.86628	+0.89464	9.45979$_n$	9.98116	86 31.7	+0.54268	−0.00322
10	0.95434	0.93082	9.45974$_n$	9.98117	89 1.7	0.54268	0.00322
20	1.04239	0.96701	9.45969$_n$	9.98117	91 31.7	0.54269	0.00322
30	1.13044	1.00320	9.45965$_n$	9.98118	94 1.7	0.54269	0.00321
40	+1.21848	+1.03939	9.45960$_n$	9.98118	96 31.7	+0.54269	−0.00321

Mittl. Zeit Greenwich	log x' für 1 Minute	log y' für 1 Minute	log μ' für 1 Min.	log tang f_a	log tang f_i
h 1	7.9451	7.5568	1.1761	7.67608	7.67391
2	7.9451	7.5572	1.1761	7.67608	7.67391
3	7.9451	7.5576	1.1761	7.67608	7.67391
4	7.9450	7.5579	1.1761	7.67608	7.67391
5	7.9449	7.5582	1.1761	7.67607	7.67390
6	7.9448	7.5585	1.1761	7.67607	7.67390
7	7.9446	7.5587	1.1761	7.67607	7.67390

III. Partielle Mondfinsternis 1916 Juli 14

Opposition in Rektaszension Juli 14, $16^h 29^m 34^s.3$ Mittl. Zt. Greenwich

Rektaszension des Mondes	$19^h 36^m 29^s.27$
Stündliche Änderung	2 39.64
Rektaszension der Sonne	7 36 29.27
Stündliche Änderung	10.12
Deklination des Mondes	$-22°\ 13'\ 50''.2$
Stündliche Änderung	+ 9 38.0
Deklination der Sonne	+21 35 58.9
Stündliche Änderung	— 0 23.3
Äquatorialhorizontalparallaxe des Mondes . . .	61 23.4
» der Sonne . . .	8.7
Halbmesser des Mondes	16 42.9
» der Sonne	15 44.1

Anfang der Finsternis	Juli 14,	$15^h 19^m.3$	Mittl. Zt. Greenwich
Mitte » »		16 45.9	» » »
Ende » »		18 12.5	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

49° 8′ westliche Länge von Greenwich,	22° 25′ südliche Breite
69 54 » » » »	22 11 » »
90 39 » » » »	21 57 » »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 40°
» » Austritts » » » = 290
Größe der Verfinsterung in Teilen des Monddurchmessers = 0.800

Der Anfang der Finsternis ist sichtbar in Afrika, dem südwestlichen Teile Europas, einschließlich dem südwestlichen Deutschland, dem Atlantischen Ozean, Nordamerika (ausgenommen der nordwestliche Teil), Südamerika und dem südlichen Teile des Stillen Ozeans; das Ende der Finsternis ist sichtbar im Atlantischen Ozean, Nord- und Südamerika und dem südlichen Teile des Stillen Ozeans.

IV. Ringförmige Sonnenfinsternis 1916 Juli 29

Konjunktion in Rektaszension Juli 29, $14^h 39^m 30^s.3$ Mittl. Zt. Greenwich

Rektaszension des Mondes	$8^h 35^m 53^s.91$
Stündliche Änderung	1 57.77
Rektaszension der Sonne	8 35 53.91
Stündliche Änderung	9.77
Deklination des Mondes	$+17° 53' 51''.1$
Stündliche Änderung	— 10 3.1
Deklination der Sonne	+18 38 11.8
Stündliche Änderung	— 35.9
Äquatorialhorizontalparallaxe des Mondes . .	54 7.0
» der Sonne . . .	8.7
Halbmesser des Mondes	14 44.0
» der Sonne	15 45.3

	Mittl. Zeit Greenwich	Länge von Greenwich	Geographische Breite
Beginn der Finsternis überhaupt .	$11^h 24^m.9$	$102° 35'$ O.	$-9° 11'$
Beginn der ringförmigen Finsternis	12 47.2	89 0 O.	−27 47
Beginn der zentralen Finsternis .	12 50.8	88 56 O.	−28 56
Zentrale Finsternis im wahren Mittag	14 39.5	141 42 O.	−36 54
Ende der zentralen Finsternis . .	15 20.8	179 32 O.	−63 59
Ende der ringförmigen Finsternis .	15 24.3	181 8 O.	−63 14
Ende der Finsternis überhaupt . .	16 46.8	180 12 O.	−46 49

Die Finsternis ist sichtbar in Australien, dem Indischen Insel-Archipel und Neuseeland.

Elemente der ringförmigen Sonnenfinsternis 1916 Juli 29

Mittl. Zeit Greenwich	x	y	log sin d	log cos d	μ	l_a	l_i
11h 20m	−1.58299	−0.24058	9.50532	9.97652	168° 25.6′	+0.56494	+0.01893
30	1.50365	0.26966	9.50528	9.97653	170 55.6	0.56495	0.01894
40	1.42430	0.29874	9.50525	9.97653	173 25.6	0.56495	0.01894
50	1.34496	0.32783	9.50521	9.97653	175 55.6	0.56495	0.01894
12 0	−1.26561	−0.35692	9.50517	9.97654	178 25.6	+0.56495	+0.01894
10	1.18626	0.38602	9.50514	9.97654	180 55.7	0.56495	0.01894
20	1.10691	0.41512	9.50510	9.97655	183 25.7	0.56495	0.01894
30	1.02756	0.44423	9.50507	9.97655	185 55.7	0.56495	0.01894
40	0.94821	0.47335	9.50503	9.97655	188 25.7	0.56495	0.01894
50	0.86887	0.50246	9.50500	9.97656	190 55.7	0.56495	0.01894
13 0	−0.78952	−0.53159	9.50496	9.97656	193 25.7	+0.56495	+0.01894
10	0.71017	0.56072	9.50492	9.97657	195 55.7	0.56495	0.01893
20	0.63082	0.58985	9.50489	9.97657	198 25.8	0.56494	0.01893
30	0.55147	0.61899	9.50485	9.97658	200 55.8	0.56494	0.01893
40	0.47213	0.64813	9.50482	9.97658	203 25.8	0.56493	0.01892
50	0.39278	0.67728	9.50478	9.97658	205 55.8	0.56493	0.01892
14 0	−0.31344	−0.70643	9.50474	9.97659	208 25.8	+0.56493	+0.01891
10	0.23409	0.73559	9.50471	9.97659	210 55.8	0.56492	0.01891
20	0.15475	0.76475	9.50467	9.97660	213 25.9	0.56491	0.01890
30	−0.07541	0.79392	9.50464	9.97660	215 55.9	0.56491	0.01890
40	+0.00393	0.82309	9.50460	9.97660	218 25.9	0.56490	0.01889
50	0.08327	0.85226	9.50457	9.97661	220 55.9	0.56489	0.01888
15 0	+0.16260	−0.88144	9.50453	9.97661	223 25.9	+0.56488	+0.01887
10	0.24194	0.91062	9.50449	9.97662	225 55.9	0.56487	0.01886
20	0.32127	0.93981	9.50446	9.97662	228 25.9	0.56486	0.01885
30	0.40060	0.96900	9.50442	9.97662	230 56.0	0.56485	0.01884
40	0.47993	0.99820	9.50439	9.97663	233 26.0	0.56484	0.01883
50	0.55925	1.02740	9.50435	9.97663	235 56.0	0.56483	0.01882
16 0	+0.63857	−1.05660	9.50432	9.97664	238 26.0	+0.56482	+0.01881
10	0.71789	1.08581	9.50428	9.97664	240 56.0	0.56481	0.01880
20	0.79721	1.11502	9.50424	9.97664	243 26.0	0.56480	0.01879
30	0.87652	1.14423	9.50421	9.97665	245 56.1	0.56478	0.01877
40	0.95583	1.17345	9.50417	9.97665	248 26.1	0.56477	0.01876
50	+1.03514	−1.20267	9.50414	9.97666	250 56.1	+0.56475	+0.01874

Mittl. Zeit Greenwich	log x′ für 1 Minute	log y′ für 1 Minute	log μ′ für 1 Min.	log tang f_a	log tang f_i
11h	7.8995	7.4634_n	1.1761	7.66338	7.66121
12	7.8995	7.4638_n	1.1761	7.66338	7.66121
13	7.8995	7.4643_n	1.1761	7.66338	7.66121
14	7.8995	7.4647_n	1.1761	7.66339	7.66122
15	7.8995	7.4651_n	1.1761	7.66339	7.66122
16	7.8994	7.4654_n	1.1761	7.66339	7.66122
17	7.8993	7.4658_n	1.1761	7.66339	7.66122

V. Partielle Sonnenfinsternis 1916 Dezember 24

Konjunktion in Rektaszension Dez. 24, $8^h 27^m 39\overset{s}{.}5$ Mittl. Zt. Greenwich

Rektaszension des Mondes	$18^h\ 11^m\ 56^s.27$
Stündliche Änderung	2 44.59
Rektaszension der Sonne	18 11 56.27
Stündliche Änderung	11.11
Deklination des Mondes	$-24°\ 58'\ 58''.2$
Stündliche Änderung	+ 4 4.1
Deklination der Sonne	−23 25 21.1
Stündliche Änderung	+ 3.2
Äquatorialhorizontalparallaxe des Mondes . .	60 50.0
» der Sonne . . .	8.9
Halbmesser des Mondes	16 33.8
» der Sonne	16 15.7

	Mittl. Zeit Greenwich	Länge von Greenwich	Geographische Breite
Beginn der Finsternis	$8^h\ 32^m.1$	$48°\ 6'\ 0.$	$-65°\ 41'$
Größte Verfinsterung	8 46.3	32 35 0.	−64 54
Ende der Finsternis	9 0.5	18 7 0.	−63 12

Die größte Verfinsterung beträgt in Teilen des Sonnendurchmessers 0.011.

Elemente der Finsternis

Mittl. Zeit Greenwich	x	y	log sin d	log cos d	μ	l_a
$8^h\ 30^m$	+0.02237	−1.54000	9.59928_n	9.96267	$127°\ 32'.6$	+0.54084
40	0.11790	1.52890	9.59928_n	9.96267	130 2.5	0.54083
50	0.21342	1.51779	9.59927_n	9.96267	132 32.5	0.54082
9 0	0.30895	1.50666	9.59927_n	9.96267	135 2.5	0.54081
10	+0.40447	−1.49552	9.59927_n	9.96267	137 32.4	+0.54080

Mittl. Zeit Greenwich	log x' für 1 Minute	log y' für 1 Minute	log μ' für 1 Minute	log tang f_a
8^h	7.9801	7.0432	1.1760	7.67706
9	7.9801	7.0467	1.1760	7.67706
10	7.9801	7.0501	1.1760	7.67706

Die Finsternis ist nur im südlichen Eismeer, südlich von Afrika, sichtbar.

I. Elemente für die Bedeckungen der helleren Sterne (bis 4ᵐ) des Fundamentalkatalogs

Name		Nr. im Fund.-Kat.	Konjunktion in Rekt. (Mittl. Zeit Greenw.)			Stundenwinkel (für Greenw. Meridian) + westl., — östl.		y	x'	y'	Grenzen der Sichtbarkeit (in geograph. Breite)	
					h m	h	m				°	°
π	Scorpii	592	Jan.	1	22 21.0	+ 1	10.2	+0.6711	0.6033	—0.1064	+62	— 5
σ	Scorpii	607		2	6 32.8	+ 9	1.0	—0.5741	0.6096	—0.0812	— 9	—84
α	Scorpii	616		2	9 30.6	+11	51.2	+0.0421	0.6116	—0.0717	+22	—40
	Uranus			6	18 18.4	— 7	46.3	+1.2762	0.5627	+0.2282	+73	+38
η	Piscium	50		12	1 6.8	— 4	57.4	—0.2703	0.5140	+0.2175	+28	—52
17	Tauri	136		14	18 8.0	+10	1.7	+0.8666	0.5364	+0.1085	+90	+21
η	Tauri	139		14	19 21.2	+11	12.4	+1.0018	0.5368	+0.1059	+90	+31
27	Tauri	142		14	20 8.2	+11	57.8	+1.1383	0.5371	+0.1042	+90	+42
ε	Geminorum	254		18	3 49.3	— 7	2.6	+0.5876	0.5437	—0.0808	+85	+ 9
	Neptun			20	0 48.2	—11	31.5	+1.0625	0.5288	—0.1711	+90	+28
δ	Cancri	326		20	13 35.7	+ 0	52.1	—0.0374	0.5222	—0.1911	+41	—36
π	Scorpii	592		29	7 3.2	+11	40.3	+0.6274	0.5912	—0.1037	+60	— 7
σ	Scorpii	607		29	15 33.7	— 4	10.1	—0.6347	0.5974	—0.0790	—12	—90
α	Scorpii	616		29	18 38.2	— 1	13.3	—0.0059	0.5995	—0.0697	+20	—43
λ	Sagittarii	692		31	14 0.0	— 7	43.0	—0.7581	0.6090	+0.0716	—20	—90
σ	Sagittarii	706		31	23 59.8	+ 1	51.1	+1.0403	0.6056	+0.1033	+64	+21
η	Piscium	50	Febr.	8	9 26.5	+ 5	10.1	—0.2450	0.5209	+0.2203	+30	—50
17	Tauri	136		11	1 21.8	— 4	57.0	+0.8702	0.5377	+0.1085	+90	+22
η	Tauri	139		11	2 34.4	— 3	46.8	+1.0045	0.5381	+0.1059	+90	+31
27	Tauri	142		11	3 21.1	— 3	1.6	+1.1403	0.5383	+0.1043	+90	+42
ε	Geminorum	254		14	10 56.7	+ 1	52.4	+0.5863	0.5420	—0.0805	+85	+ 9
	Neptun			16	6 24.3	— 4	5.0	+1.1326	0.5297	—0.1685	+90	+34
δ	Cancri	326		16	20 37.4	+ 9	41.4	—0.0306	0.5235	—0.1914	+41	—35
π	Scorpii	592		25	13 7.9	— 4	27.6	+0.7086	0.5843	—0.1025	+64	— 2
σ	Scorpii	607		25	21 51.4	+ 3	55.0	—0.5695	0.5895	—0.0780	— 9	—83
α	Scorpii	616		26	1 1.0	+ 6	57.0	+0.0669	0.5912	—0.0688	+24	—38
λ	Sagittarii	692		27	21 48.2	+ 1	53.0	—0.7092	0.5978	+0.0699	—17	—90
σ	Sagittarii	706		28	8 9.2	+11	48.3	+1.1135	0.5946	+0.1009	+64	+28
	Mercur		März	1	15 17.5	— 7	11.0	+0.9775	0.5194	+0.2215	+73	+11
η	Piscium	50		6	18 49.6	— 7	38.8	—0.3564	0.5276	+0.2223	+24	—57
17	Tauri	136		9	9 36.0	+ 5	5.0	+0.7197	0.5421	+0.1091	+90	+13
η	Tauri	139		9	10 47.6	+ 6	14.2	+0.8529	0.5423	+0.1065	+90	+21
27	Tauri	142		9	11 33.6	+ 6	58.7	+0.9877	0.5425	+0.1048	+90	+31
ε	Geminorum	254		12	18 49.9	+11	33.4	+0.4483	0.5402	—0.0797	+72	+ 1
	Neptun			14	13 24.0	+ 4	44.6	+1.0690	0.5274	—0.1647	+90	+29
δ	Cancri	326		15	4 45.8	— 4	22.5	—0.1253	0.5218	—0.1896	+36	—40
π	Scorpii	592		23	18 30.8	+ 2	42.6	+0.8888	0.5876	—0.1024	+64	+10

I. Elemente für die Bedeckungen der helleren Sterne (bis 4^m) des Fundamentalkatalogs

Name	Nr. im Fund.-Kat.	Konjunktion in Rekt. (Mittl. Zeit Greenw.)		Stundenwinkel (für Greenw. Meridian) + westl., — östl.	y	x'	y'	Grenzen der Sichtbarkeit (in geograph. Breite)	
			h m	h m				°	°
σ Scorpii	607	März 24	3 11.5	+11 2.4	—0.3827	0.5917	—0.0777	+ 1	—67
α Scorpii	616	24	6 20.5	— 9 56.3	+0.2537	0.5929	—0.0685	+34	—28
λ Sagittarii	692	26	3 26.4	+ 9 18.6	—0.5244	0.5933	+0.0690	— 7	—79
17 Tauri	136	April 5	18 6.2	— 8 36.9	+0.5071	0.5466	+0.1088	+77	+ 2
η Tauri	139	5	19 17.2	— 7 28.3	+0.6386	0.5468	+0.1062	+90	+ 9
27 Tauri	142	5	20 2.8	— 6 44.3	+0.7720	0.5469	+0.1045	+90	+17
ε Geminorum	254	9	2 58.0	— 2 30.7	+0.1871	0.5398	—0.0796	+54	—12
Neptun		10	21 26.4	— 9 24.4	+0.8269	0.5239	—0.1623	+90	+13
δ Cancri	326	11	13 20.9	+ 6 0.6	—0.3682	0.5184	—0.1874	+23	—54
π Scorpii	592	20	1 27.3	+11 26.7	+1.0546	0.5970	—0.1022	+64	+23
σ Scorpii	607	20	9 54.4	— 4 27.1	—0.1882	0.6009	—0.0773	+11	—54
α Scorpii	616	20	12 58.7	— 1 30.5	+0.4452	0.6020	—0.0680	+45	—17
λ Sagittarii	692	22	9 9.2	— 7 11.2	—0.2760	0.5985	+0.0703	+ 6	—59
Venus		Mai 5	17 32.8	— 9 33.6	—1.1253	0.5088	—0.0428	—31	—63
ε Geminorum	254	6	10 40.8	+ 6 59.8	—0.0800	0.5408	—0.0807	+38	—26
Neptun		8	5 50.7	+ 0 46.8	+0.4957	0.5212	—0.1626	+74	— 5
δ Cancri	326	8	21 28.4	— 8 4.1	—0.6765	0.5155	—0.1862	+ 5	—71
π Scorpii	592	17	10 39.9	— 1 32.7	+1.1178	0.6044	—0.1010	+64	+29
σ Scorpii	607	17	18 55.1	+ 6 21.5	—0.0923	0.6091	—0.0760	+16	—48
α Scorpii	616	17	21 54.8	+ 9 13.5	+0.5403	0.6105	—0.0666	+51	—12
λ Sagittarii	692	19	16 50.6	+ 2 17.9	—0.0848	0.6086	+0.0731	+16	—47
η Piscium	50	27	17 26.7	— 3 38.6	—0.3394	0.5240	+0.2142	+24	—55
ε Geminorum	254	Juni 2	17 34.5	— 8 18.9	—0.2396	0.5419	—0.0824	+28	—35
Neptun		4	14 5.4	+10 46.8	+0.2049	0.5200	—0.1653	+54	—21
δ Cancri	326	5	4 35.1	+ 0 50.3	—0.9176	0.5145	—0.1866	— 9	—72
π Scorpii	592	13	21 11.4	+10 47.0	+1.0824	0.6044	—0.0989	+64	+25
σ Scorpii	607	14	5 25.3	— 5 20.1	—0.1094	0.6103	—0.0741	+14	—49
α Scorpii	616	14	8 24.0	— 2 29.1	+0.5275	0.6121	—0.0647	+50	—12
λ Sagittarii	692	16	2 42.9	—10 1.9	—0.0117	0.6160	+0.0758	+20	—43
η Piscium	50	23	23 4.8	+ 3 46.9	—0.1742	0.5233	+0.2128	+33	—46
17 Tauri	136	26	14 26.3	— 6 54.1	+0.4425	0.5442	+0.1028	+71	— 1
η Tauri	139	26	15 38.0	— 5 44.8	+0.5682	0.5445	+0.1002	+82	+ 5
27 Tauri	142	26	16 24.2	— 5 0.2	+0.6983	0.5448	+0.0985	+90	+14
δ Cancri	326	Juli 2	10 47.4	+ 8 50.1	—1.0173	0.5154	—0.1879	—16	—72
π Scorpii	592	11	7 19.7	— 1 16.7	+1.0311	0.5966	—0.0967	+64	+21
σ Scorpii	607	11	15 44.2	+ 6 46.9	—0.1642	0.6033	—0.0723	+12	—52
α Scorpii	616	11	18 46.5	+ 9 41.5	+0.4813	0.6055	—0.0631	+47	—15

I. Elemente für die Bedeckungen der helleren Sterne (bis 4^m) des Fundamentalkatalogs

Name	Nr. im Fund.-Kat.	Konjunktion in Rekt. (Mittl. Zeit Greenw.)		Stundenwinkel (für Greenw. Meridian) + westl., — östl.	y	x'	y'	Grenzen der Sichtbarkeit (in geograph. Breite)	
λ Sagittarii	692	Juli 13	13h 32m.2	+ 2h 35m.6	−0.0192	0.6154	+0.0768	+20°	−43°
η Piscium	50	21	5 36.8	−11 53.6	−0.0961	0.5277	+0.2143	+37	−42
17 Tauri	136	23	20 20.7	+ 0 47.7	+0.4924	0.5435	+0.1022	+75	+ 2
η Tauri	139	23	21 32.3	+ 1 56.9	+0.6173	0.5438	+0.0996	+88	+ 8
27 Tauri	142	23	22 18.3	+ 2 41.4	+0.7467	0.5440	+0.0980	+90	+16
ε Geminorum	254	27	5 45.8	+ 7 27.2	−0.2516	0.5411	−0.0839	+28	−36
π Scorpii	592	Aug. 7	15 37.6	+ 8 49.1	+1.0623	0.5860	−0.0950	+64	+24
σ Scorpii	607	8	0 19.5	− 6 49.9	−0.1518	0.5925	−0.0710	+13	−51
α Scorpii	616	8	3 28.0	− 3 49.1	+0.5036	0.5947	−0.0619	+48	−14
λ Sagittarii	692	9	23 33.0	− 9 35.4	−0.0085	0.6071	+0.0756	+20	−43
η Piscium	50	17	13 47.2	− 1 55.4	−0.1573	0.5356	+0.2172	+34	−45
17 Tauri	136	20	3 13.0	+ 9 27.6	+0.4180	0.5467	+0.1028	+70	− 3
η Tauri	139	20	4 23.7	+10 35.9	+0.5419	0.5468	+0.1002	+80	+ 4
27 Tauri	142	20	5 9.1	+11 19.7	+0.6704	0.5470	+0.0985	+90	+11
ε Geminorum	254	23	12 14.3	− 8 16.7	−0.3028	0.5400	−0.0833	+25	−39
Saturn		24	22 11.3	+ 0 34.6	+0.3942	0.5222	−0.1484	+67	− 9
Neptun		25	14 36.9	− 7 30.1	−0.2164	0.5192	−0.1753	+30	−44
δ Cancri	326	25	23 10.0	+ 0 47.6	−1.0254	0.5174	−0.1879	−17	−72
π Scorpii	592	Sept. 3	21 46.8	− 7 14.3	+1.2147	0.5796	−0.0940	+64	+41
σ Scorpii	607	4	6 41.9	+ 1 20.0	−0.0150	0.5850	−0.0702	+20	−43
α Scorpii	616	4	9 55.6	+ 4 25.9	+0.6482	0.5868	−0.0613	+59	− 5
λ Sagittarii	692	6	7 26.1	+ 0 5.4	+0.1088	0.5965	+0.0735	+26	−36
η Piscium	50	13	23 15.8	+ 9 21.1	−0.3016	0.5428	+0.2188	+26	−53
17 Tauri	136	16	11 23.5	− 4 34.2	+0.2214	0.5528	+0.1035	+55	−13
η Tauri	139	16	12 32.8	− 3 27.3	+0.3438	0.5529	+0.1009	+63	− 6
27 Tauri	142	16	13 17.4	− 2 44.2	+0.4709	0.5529	+0.0992	+73	0
ε Geminorum	254	19	19 35.0	+ 0 51.6	−0.4918	0.5399	−0.0827	+14	−50
δ Geminorum	279	20	12 41.4	− 6 35.5	+1.1997	0.5330	−0.1172	+90	+47
Saturn		21	11 15.5	− 8 44.2	−0.1027	0.5199	−0.1566	+36	−36
Neptun		21	23 38.2	+ 3 15.9	−0.4510	0.5177	−0.1761	+18	−58
δ Cancri	326	22	6 33.0	+ 9 58.2	−1.1632	0.5163	−0.1861	−28	−72
Venus		22	19 40.8	− 1 17.4	−0.2198	0.4666	−0.1937	+31	−48
σ Scorpii	607	Okt. 1	11 59.0	+ 8 24.4	+0.2042	0.5860	−0.0696	+31	−30
α Scorpii	616	1	15 13.0	+11 30.7	+0.8703	0.5873	−0.0606	+64	+10
θ Ophiuchi	644	2	11 44.2	+ 7 12.7	−1.1357	0.5928	−0.0017	−51	−90
λ Sagittarii	692	3	13 15.2	+ 7 42.0	+0.3393	0.5910	+0.0726	+39	−23
η Piscium	50	11	8 49.5	− 3 17.2	−0.4071	0.5452	+0.2174	+20	−59

I. Elemente für die Bedeckungen der helleren Sterne (bis 4^m) des Fundamentalkatalogs

Name	Nr. im Fund.-Kat.	Konjunktion in Rekt. (Mittl. Zeit Greenw.)		Stundenwinkel (für Greenw. Meridian) + westl., — östl.	y	x'	y'	Grenzen der Sichtbarkeit (in geograph. Breite)	
			h m	h m				°	°
17 Tauri	136	Okt. 13	20 21.3	+ 6 11.5	+0.0029	0.5585	+0.1030	+42	—24
η Tauri	139	13	21 29.7	+ 7 17.5	+0.1231	0.5586	+0.1004	+49	—17
27 Tauri	142	13	22 13.7	+ 8 0.1	+0.2484	0.5587	+0.0987	+57	—11
ε Geminorum	254	17	3 41.4	+10 45.8	—0.7777	0.5418	—0.0830	— 3	—65
δ Geminorum	279	17	20 45.0	+ 3 15.8	+0.9065	0.5336	—0.1171	+90	+23
Saturn		18	23 4.8	+ 4 46.1	—0.6241	0.5191	—0.1619	+ 8	—67
Neptun		19	8 45.8	— 9 50.6	—0.7834	0.5163	—0.1763	— 2	—71
σ Scorpii	607	28	18 18.8	— 7 28.3	+0.3893	0.5940	—0.0687	+42	—20
α Scorpii	616	28	21 28.7	— 4 26.1	+1.0544	0.5953	—0.0597	+64	+24
θ Ophiuchi	644	29	17 36.0	— 9 8.1	—0.9039	0.5994	—0.0003	—35	—90
λ Sagittarii	692	30	18 46.3	— 8 59.5	+0.5899	0.5950	+0.0739	+56	— 8
η Piscium	50	Nov. 7	17 5.5	+ 6 46.6	—0.3810	0.5418	+0.2134	+21	—57
17 Tauri	136	10	5 0.0	— 7 22.0	—0.1165	0.5603	+0.1012	+35	—30
η Tauri	139	10	6 8.3	— 6 16.1	+0.0014	0.5604	+0.0985	+42	—24
27 Tauri	142	10	6 52.3	— 5 33.7	+0.1253	0.5606	+0.0968	+49	—17
ε Geminorum	254	13	11 57.5	— 3 10.3	—1.0347	0.5446	—0.0846	—22	—65
δ Geminorum	279	14	4 57.4	—10 44.0	+0.6279	0.5355	—0.1184	+88	+ 7
Saturn		15	8 21.7	— 8 11.2	—1.0337	0.5210	—0.1644	—19	—70
Neptun		15	17 9.2	+ 0 20.4	—1.0994	0.5164	—0.1767	—24	—71
ο Leonis	365	17	4 54.7	+11 3.6	+1.2819	0.5028	—0.2158	+90	+41
λ Sagittarii	692	27	2 15.3	+ 0 17.2	+0.7429	0.6051	+0.0768	+65	+ 1
η Piscium	50	Dez. 4	23 30.2	— 9 1.1	—0.2429	0.5363	+0.2093	+28	—49
17 Tauri	136	7	12 19.8	+ 1 45.5	—0.0983	0.5572	+0.0986	+36	—29
η Tauri	139	7	13 28.9	+ 2 52.2	+0.0181	0.5575	+0.0960	+42	—22
27 Tauri	142	7	14 13.4	+ 3 35.1	+0.1412	0.5576	+0.0944	+50	—16
ε Geminorum	254	10	19 38.0	+ 6 17.8	—1.1572	0.5464	—0.0863	—34	—65
δ Geminorum	279	11	12 36.7	— 1 16.9	+0.4827	0.5374	—0.1200	+73	— 1
Saturn		12	14 13.2	— 0 28.8	—1.1845	0.5256	—0.1637	—33	—70
Neptun		13	0 5.1	+ 9 5.2	—1.2586	0.5184	—0.1771	—40	—71
ο Leonis	365	14	12 41.3	— 3 22.0	+1.0704	0.5017	—0.2157	+90	+22

II. Verzeichnis von Fixsternen, welche in Mitteleuropa vom Monde bedeckt werden

Nr.	Name	Größe	$\alpha_{1916.0}$	μ_α	$\delta_{1916.0}$	μ_δ
			h m s	s	° ′ ″	″
1	136 B. Piscium	6.5	0 36 51.353	−0.0084	+ 8 53 48.53	−0.082
2	101 Piscium	6.2	1 31 16.819	+0.0010	14 13 56.68	−0.001
3	47 B. Arietis	6.5	2 3 8.995	−0.0037	17 37 46.99	−0.007
4	20 H[1]. Arietis	6.4	2 4 46.053	+0.0112	16 49 51.03	−0.179
5	26 Arietis	6.2	2 25 55.549	+0.0050	19 28 59.27	−0.022
6	μ Arietis	5.7	2 37 37.599	+0.0023	+19 39 15.43	−0.038
7	47 Arietis	5.8	2 53 16.532	+0.0160	20 19 57.61	−0.021
8	ε Arietis (Mitte)	4.6	2 54 24.310	−0.0009	21 0 18.17	−0.010
9	66 Arietis	6.1	3 23 31.774	+0.0006	22 30 54.87	−0.112
10	16 Tauri	5.4	3 39 48.399	+0.0009	24 1 33.70	−0.049
11	17 Tauri	3.8	3 39 53.043	+0.0016	+23 51 0.22	−0.050
12	18 Tauri	5.6	3 40 8.777	+0.0004	24 34 35.94	−0.038
13	q Tauri	4.3	3 40 12.231	+0.0010	24 12 17.04	−0.034
14	20 Tauri	4.1	3 40 49.510	+0.0016	24 6 22.10	−0.044
15	21 Tauri	5.8	3 40 53.993	+0.0012	24 17 35.35	−0.046
16	22 Tauri	6.5	3 41 2.434	+0.0006	+24 16 0.10	−0.039
17	23 Tauri	4.3	3 41 20.240	+0.0017	23 41 14.83	−0.050
18	η Tauri	3.0	3 42 29.281	+0.0016	23 50 46.45	−0.050
19	104 B. Tauri	5.5	3 43 22.235	+0.0008	23 9 50.38	−0.045
20	27 Tauri	3.7	3 44 9.852	+0.0013	23 47 50.75	−0.048
21	28 Tauri	5.2	3 44 11.139	+0.0009	+23 52 51.38	−0.046
22	36 Tauri	5.6	3 59 20.059	+0.0001	23 52 31.76	−0.022
23	χ Tauri	5.3	4 17 28.108	+0.0028	25 25 55.07	−0.029
24	62 Tauri	6.1	4 18 55.749	+0.0008	24 6 22.27	−0.019
25	315 B. Tauri	6.3	4 51 8.552	−0.0001	24 27 31.99	−0.033
26	k Tauri	5.6	4 53 0.862	+0.0023	+24 55 17.59	−0.061
27	118 Tauri	5.4	5 24 6.282	+0.0015	25 5 0.28	−0.038
28	112 B. Aurigae	5.7	5 31 53.972	−0.0004	26 52 21.75	−0.039
29	125 Tauri	5.1	5 34 31.834	+0.0018	25 51 3.59	−0.029
30	132 Tauri	5.0	5 43 51.624	0.0000	24 32 25.41	−0.023
31	139 Tauri	4.7	5 52 46.919	0.0000	+25 56 40.31	−0.007
32	5 Geminorum	5.9	6 6 23.261	+0.0011	24 26 23.06	−0.061
33	8 Geminorum	6.1	6 11 11.120	−0.0009	23 59 53.02	−0.026
34	52 B. Geminorum	6.5	6 32 18.294	−0.0021	24 39 41.32	−0.002
35	ε Geminorum	3.2	6 38 45.897	−0.0001	25 12 55.35	−0.018
36	87 B. Geminorum	5.8	6 46 54.133	−0.0006	+23 42 7.03	−0.021
37	ω Geminorum	5.2	6 57 17.777	−0.0003	24 20 10.43	0.000
38	44 Geminorum	5.9	7 0 15.036	0.0000	22 45 51.15	−0.019
39	48 Geminorum	5.8	7 7 20.252	−0.0009	24 16 12.72	−0.041
40	δ Geminorum	3.5	7 15 6.499	−0.0010	22 8 16.82	−0.015
41	58 Geminorum	6.0	7 18 25.352	−0.0022	+23 6 28.11	−0.054
42	149 B. Geminorum	6.4	7 21 52.513	−0.0219	21 42 16.19	−0.022

II. Verzeichnis von Fixsternen, welche in Mitteleuropa vom Monde bedeckt werden

Nr.	Name	Größe	$\alpha_{1916.0}$	μ_α	$\delta_{1916.0}$	μ_δ
			h m s	s	° ′ ″	″
43	63 Geminorum	5.3	7 22 45.321	−0.0035	+21 37 5.29	−0.110
44	B. D. +23° 1744	6.4	7 27 48.701	−0.0010	23 4 3.43	−0.007
45	192 B. Geminorum	6.3	7 38 22.151	−0.0014	22 35 54.46	+0.025
46	79 Geminorum	6.3	7 40 13.546	−0.0013	20 31 6.94	−0.012
47	85 Geminorum	5.2	7 50 45.888	−0.0011	20 6 23.79	−0.043
48	217 B. Geminorum	6.3	7 55 54.378	−0.0018	+20 2 50.55	−0.007
49	10 H. Cancri	6.1	7 59 54.111	−0.0020	19 4 48.67	−0.046
50	d^1 Cancri	5.9	8 18 33.377	−0.0038	18 36 9.73	−0.031
51	d^2 Cancri	6.2	8 21 4.740	−0.0132	17 19 26.08	−0.153
52	θ Cancri	5.5	8 26 48.516	−0.0039	18 22 44.25	−0.068
53	54 Cancri	6.3	8 46 20.903	−0.0075	+15 39 46.70	+0.076
54	o^1 Cancri	5.1	8 52 33.976	+0.0041	15 38 44.29	+0.022
55	o^2 Cancri	5.7	8 52 53.861	+0.0043	15 54 16.57	+0.023
56	81 Cancri	6.4	9 7 41.920	−0.0359	15 20 6.89	+0.244
57	π Cancri	5.6	9 10 35.780	−0.0022	15 17 26.32	−0.008
58	ξ Leonis	5.1	9 27 25.210	−0.0063	+11 40 20.74	−0.084
59	*o* Leonis	3.8	9 36 40.165	−0.0096	10 16 30.54	−0.033
60	19 Leonis	6.4	9 42 55.034	−0.0049	11 57 26.23	+0.008
61	*R* Leonis (Veränd.)	5−10	9 43 2.528	−0.0005	11 49 8.76	−0.040
62	83 B. Leonis	5.9	9 51 58.834	−0.0074	9 19 54.41	+0.017
63	89 B. Leonis	6.2	9 53 40.745	+0.0010	+ 8 42 55.56	−0.029
64	π Leonis	4.9	9 55 46.547	−0.0029	8 26 51.90	−0.027
65	43 Leonis	6.3	10 18 36.791	−0.0017	6 58 10.48	−0.101
66	155 B. Leonis	6.5	10 18 52.892	−0.0167	6 7 14.62	−0.071
67	35 Sextantis	6.1	10 38 59.399	+0.0018	5 11 20.05	−0.019
68	p^4 Leonis	5.7	11 2 37.184	−0.0253	+ 2 24 42.76	−0.080
69	p^5 Leonis	5.3	11 9 27.593	−0.0029	+ 0 23 15.75	−0.003
70	388 B. Leonis	6.3	11 23 36.188	−0.0025	− 1 14 14.64	+0.007
71	431 B. Leonis	6.2	11 34 6.516	−0.0028	1 58 17.15	+0.047
72	13 B. Virginis	5.9	11 46 44.591	+0.0008	4 51 57.75	+0.006
73	*q* Virginis	5.3	12 29 26.539	−0.0057	− 8 59 19.31	+0.004
74	370 B. Virginis	6.0	12 49 56.310	−0.0058	11 11 36.06	−0.037
75	69 Virginis	4.9	13 22 58.182	−0.0086	15 32 17.99	+0.013
76	75 Virginis	5.6	13 28 22.209	−0.0050	14 55 52.16	+0.004
77	87 Virginis	5.8	13 42 50.974	+0.0025	17 26 23.19	−0.046
78	89 Virginis	5.1	13 45 18.232	−0.0077	−17 42 58.11	−0.040
79	153 B. Librae	6.3	15 28 10.560	−0.0006	24 12 17.52	−0.042
80	*b* Scorpii	4.7	15 45 55.379	−0.0023	25 29 48.77	−0.044
81	*A* Scorpii	4.6	15 48 33.918	−0.0017	25 4 37.30	−0.023
82	4 Scorpii	5.7	15 50 25.281	−0.0038	26 1 8.79	−0.028
83	π Scorpii	3.0	15 53 46.018	−0.0010	−25 52 23.56	−0.048
84	48 B. Scorpii	4.9	15 58 15.872	−0.0048	25 37 55.06	−0.043

II. Verzeichnis von Fixsternen, welche in Mitteleuropa vom Monde bedeckt werden

Nr.	Name	Größe	$\alpha_{1916.0}$	μ_α	$\delta_{1916.0}$	μ_δ
85	65 B. Scorpii	5.5	16h 3m 0.316s	+0.0095s	−26° 6′ 7.64″	+0.023″
86	α Scorpii	1.2	16 24 15.249	−0.0006	26 14 47.60	−0.028
87	116 B. Scorpii	6.2	16 26 13.394	−0.0013	26 21 20.39	−0.037
88	134 B. Scorpii	6.4	16 39 4.635	+0.0012	27 17 57.66	−0.014
89	95 G. Ophiuchi	6.1	17 7 9.446	+0.0008	27 39 32.92	−0.029
90	4 G. Sagittarii	6.2	17 43 12.613	−0.0003	−26 56 46.04	−0.030
91	66 B. Sagittarii	4.7	18 12 47.708	0.0000	27 4 25.46	+0.015
92	68 G. Sagittarii	6.2	18 22 29.563	0.0000	26 41 7.67	−0.046
93	λ Sagittarii	2.9	18 22 47.209	−0.0033	25 28 9.43	−0.199
94	86 B. Sagittarii	6.5	18 23 43.012	−0.0063	26 38 10.42	−0.054
95	162 B. Sagittarii	6.4	18 53 11.524	−0.0009	−24 59 23.23	−0.020
96	127 G. Sagittarii	6.4	18 55 15.555	+0.0023	25 3 35.36	+0.051
97	172 B. Sagittarii	5.8	18 57 19.375	+0.0002	24 57 48.63	−0.172
98	189 B. Sagittarii	6.1	19 3 6.704	+0.0012	24 47 21.82	+0.001
99	ψ Sagittarii	4.9	19 10 23.449	+0.0025	25 24 8.98	−0.035
100	208 B. Sagittarii	6.1	19 10 26.217	+0.0072	−24 19 23.71	−0.078
101	49 Sagittarii	5.5	19 20 24.701	−0.0017	24 7 39.82	+0.001
102	53 Sagittarii	6.3	19 34 46.694	−0.0004	23 37 10.84	−0.037
103	274 B. Sagittarii	6.1	19 35 4.274	+0.0018	23 37 20.24	−0.031
104	υ Capricorni	5.3	20 35 16.187	−0.0018	18 26 6.01	−0.007
105	81 B. Capricorni	6.4	20 44 34.773	−0.0004	−18 20 46.93	−0.019
106	19 Capricorni	5.7	20 50 3.178	−0.0041	18 14 31.54	−0.013
107	94 B. Capricorni	5.7	20 52 58.641	+0.0046	16 21 18.69	+0.030
108	21 Capricorni	6.5	20 56 8.249	−0.0025	17 51 32.41	−0.002
109	29 Capricorni	5.5	21 11 6.005	+0.0016	15 31 16.35	+0.004
110	λ Capricorni	5.5	21 42 0.892	+0.0015	−11 45 13.82	−0.004
111	151 B. Capricorni	6.1	21 45 8.758	−0.0009	13 6 53.36	+0.031
112	96 B. Aquarii	6.5	21 49 6.632	−0.0001	10 42 27.35	+0.006
113	θ Aquarii	4.3	22 12 24.128	+0.0073	8 12 6.99	−0.019
114	150 B. Aquarii	6.0	22 12 26.611	−0.0034	9 27 32.34	−0.005
115	ρ Aquarii	5.3	22 15 46.808	+0.0008	− 8 14 36.57	−0.008
116	170 B. Aquarii	6.0	22 19 7.942	+0.0012	7 37 9.73	+0.033
117	186 B. Aquarii	6.1	22 26 54.116	+0.0129	6 59 3.67	−0.129
118	252 B. Aquarii	5.8	22 50 49.528	−0.0003	5 26 7.50	+0.009
119	6 G. Piscium	6.2	22 53 56.037	+0.0002	2 50 43.37	−0.082
120	22 B. Piscium	6.4	23 19 13.388	+0.0043	− 0 10 11.38	+0.038
121	κ Piscium	4.9	23 22 37.584	+0.0056	+ 0 47 44.38	−0.093
122	9 Piscium	6.4	23 22 56.623	+0.0032	0 39 40.03	−0.029
123	16 Piscium	5.7	23 32 6.082	−0.0074	1 38 9.48	+0.057
124	λ Piscium	4.6	23 37 45.599	−0.0092	1 19 3.54	−0.154
125	19 Piscium	5.4	23 42 5.906	−0.0034	+ 3 1 14.72	−0.020
126	22 Piscium	5.8	23 47 39.791	+0.0009	+ 2 27 48.33	−0.011

III. Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Nr. in Liste II	Konj. in Rekt. (Mittlere Zeit Greenwich)	y	x'	y'
	Jan.			
	d h m			
80	1 19 25.6	+0.6226	0.6007	−0.1149
2	12 3 17.8	+0.9381	0.5145	+0.2148
5	13 6 38.1	+0.5850	0.5228	+0.1751
23	15 11 34.2	+0.6799	0.5421	+0.0704
31	17 6 52.0	+0.9644	0.5470	−0.0320
35	18 3 49.3	+0.5876	0.5437	−0.0808
37	18 12 22.2	+0.7897	0.5414	−0.0997
39	18 17 2.2	+0.3736	0.5399	−0.1098
45	19 7 38.5	+0.3977	0.5346	−0.1395
52	20 7 5.8	+1.2663	0.5249	−0.1811
57	21 5 4.0	+0.3121	0.5161	−0.2122
65	22 16 27.7	+1.1868	0.5064	−0.2456
68	23 15 47.3	+0.2174	0.5051	−0.2563
73	25 12 54.1	+0.7529	0.5177	−0.2504
75	26 15 0.0	+1.3046	0.5345	−0.2289
	Febr.			
118	5 4 19.4	+1.3484	0.5335	+0.2686
124	6 3 3.4	+0.5483	0.5241	+0.2665
1	7 8 26.4	+0.2588	0.5193	+0.2479
3	9 3 15.4	+0.5426	0.5245	+0.1946
8	10 3 59.0	+1.1883	0.5314	+0.1517
28	13 4 29.6	+0.1287	0.5456	−0.0094
29	13 5 41.0	+1.2488	0.5456	−0.0122
31	13 13 57.4	+0.9626	0.5452	−0.0319
35	14 10 56.7	+0.5863	0.5420	−0.0805
41	15 5 21.6	+1.0604	0.5371	−0.1203
44	15 9 46.6	+0.5526	0.5357	−0.1294
45	15 14 46.5	+0.3981	0.5340	−0.1393
♆	16 6 24.3	+1.1326	0.5297	−0.1685
52	16 14 9.6	+1.2674	0.5258	−0.1812
56	17 10 30.9	+0.5836	0.5189	−0.2110
57	17 11 58.7	+0.3218	0.5184	−0.2129
60	18 4 27.9	+0.2668	0.5140	−0.2317
61	18 4 31.8	+0.4015	0.5140	−0.2317
67	19 9 35.8	+0.4477	0.5099	−0.2535
70	20 8 52.3	+1.2963	0.5113	−0.2602
	Febr.			
	d h m			
71	20 14 19.0	+0.6558	0.5123	−0.2604
83	25 13 7.9	+0.7086	0.5843	−0.1025
85	25 16 45.8	+0.5871	0.5866	−0.0924
89	26 17 21.8	+0.7740	0.5974	−0.0192
91	27 18 2.2	+0.6640	0.5985	+0.0583
99	28 15 57.9	+0.9842	0.5912	+0.1231
	März			
1	5 18 16.9	+0.1661	0.5251	+0.2497
6	8 4 40.4	+1.2337	0.5352	+0.1679
10	9 9 33.8	+0.5236	0.5421	+0.1092
11	9 9 36.0	+0.7197	0.5421	+0.1091
13	9 9 44.8	+0.3482	0.5421	+0.1088
14	9 10 1.8	+0.4868	0.5422	+0.1082
15	9 10 3.9	+0.2863	0.5422	+0.1081
16	9 10 7.8	+0.3221	0.5422	+0.1080
17	9 10 15.9	+0.9699	0.5422	+0.1076
18	9 10 47.6	+0.8529	0.5423	+0.1065
20	9 11 33.6	+0.9877	0.5425	+0.1048
21	9 11 34.2	+0.8973	0.5425	+0.1048
29	11 13 32.0	+1.0992	0.5456	−0.0120
39	13 8 6.9	+0.2418	0.5364	−0.1084
41	13 13 19.5	+0.9323	0.5347	−0.1191
♆	14 13 24.0	+1.0690	0.5274	−0.1647
60	16 12 36.4	+0.2113	0.5143	−0.2304
61	16 12 40.3	+0.3457	0.5143	−0.2304
65	17 7 0.0	+1.1727	0.5126	−0.2466
70	18 16 30.4	+1.3169	0.5159	−0.2608
74	20 11 20.0	+0.6994	0.5338	−0.2465
80	23 15 25.9	+0.8352	0.5859	−0.1108
82	23 17 12.1	+1.1739	0.5869	−0.1060
88	24 12 1.4	+0.9798	0.5947	−0.0516
106	28 15 10.6	+0.8902	0.5576	+0.2104
108	28 17 50.0	+1.0658	0.5558	+0.2148
111	29 15 52.3	+1.3034	0.5423	+0.2433

III. Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Nr. in Liste II	Konj. in Rekt. (Mittlere Zeit Greenwich)			y	x'	y'
	April					
	d	h	m			
5	4	7	58.6	+0.2938	0.5379	+0.1777
10	5	18	4.2	+0.3116	0.5466	+0.1089
11	5	18	6.2	+0.5071	0.5466	+0.1088
13	5	18	15.0	+0.1366	0.5466	+0.1085
14	5	18	31.9	+0.2745	0.5466	+0.1079
15	5	18	33.9	+0.0744	0.5467	+0.1078
16	5	18	37.8	+0.1101	0.5467	+0.1077
17	5	18	45.8	+0.7557	0.5467	+0.1074
23	6	11	4.5	+0.3021	0.5490	+0.0700
31	8	5	55.1	+0.5598	0.5458	−0.0320
37	9	11	35.6	+0.3928	0.5368	−0.0981
52	11	6	47.8	+0.9209	0.5206	−0.1775
71	15	7	0.3	+0.6015	0.5180	−0.2591
73	16	10	22.4	+0.8636	0.5318	−0.2525
76	17	13	45.2	+0.3393	0.5516	−0.2279
79	19	15	35.8	+0.5240	0.5912	−0.1294
87	20	13	42.9	+0.5052	0.6022	−0.0657
102	23	13	7.8	+0.9279	0.5804	+0.1462
103	23	13	14.9	+0.9478	0.5803	+0.1465
117	26	17	34.5	+0.1758	0.5279	+0.2542
	Mai					
29	5	5	23.2	+0.6165	0.5496	−0.0139
34	6	7	41.4	+0.7653	0.5419	−0.0742
41	7	5	19.4	+0.3881	0.5328	−0.1190
♆	8	5	50.7	+0.4957	0.5212	−0.1626
50	8	10	42.0	+1.0927	0.5198	−0.1703
70	12	11	10.2	+0.9939	0.5114	−0.2544
80	17	7	43.8	+1.0540	0.6025	−0.1095
81	17	8	43.2	+0.5294	0.6031	−0.1067
83	17	10	39.9	+1.1178	0.6044	−0.1010
84	17	12	20.4	+0.7128	0.6055	−0.0961
85	17	14	5.9	+1.0145	0.6065	−0.0908
91	19	13	11.2	+1.2572	0.6104	+0.0617
100	20	10	37.9	+0.5525	0.5970	+0.1252
101	20	14	27.0	+0.8562	0.5939	+0.1354
109	22	12	0.9	+0.6578	0.5533	+0.2244

Nr. in Liste II	Konj. in Rekt. (Mittlere Zeit Greenwich)			y	x'	y'
	Mai					
	d	h	m			
114	23	16	13.4	+1.2344	0.5328	+0.2504
126	25	15	21.9	+0.9544	0.5170	+0.2544
1	26	16	19.2	+0.3573	0.5180	+0.2398
	Juni					
48	4	6	26.9	+1.1015	0.5249	−0.1532
65	7	8	48.4	+0.4710	0.5006	−0.2377
66	7	8	57.0	+1.3613	0.5006	−0.2378
75	11	7	10.5	+1.2790	0.5432	−0.2240
79	13	11	31.7	+0.5159	0.5961	−0.1259
86	14	8	24.0	+0.5275	0.6121	−0.0647
87	14	9	6.9	+0.5895	0.6125	−0.0625
88	14	13	45.7	+1.2629	0.6150	−0.0475
90	15	12	36.6	+0.6940	0.6195	+0.0291
95	16	13	43.2	+0.5437	0.6102	+0.1102
96	16	14	28.6	+0.6966	0.6097	+0.1124
97	16	15	14.0	+0.6881	0.6092	+0.1147
124	21	16	29.1	+1.0722	0.5216	+0.2577
3	24	16	48.1	+0.4643	0.5286	+0.1878
8	25	17	17.9	+0.9130	0.5372	+0.1456
10	26	14	24.2	+0.2457	0.5442	+0.1029
11	26	14	26.3	+0.4425	0.5442	+0.1028
13	26	14	35.1	+0.0684	0.5442	+0.1025
14	26	14	52.2	+0.2058	0.5443	+0.1018
17	26	15	6.4	+0.6891	0.5444	+0.1013
18	26	15	38.0	+0.5682	0.5445	+0.1002
20	26	16	24.2	+0.6983	0.5448	+0.0985
21	26	16	24.8	+0.6076	0.5448	+0.0985
	Juli					
83	11	7	19.7	+1.0311	0.5966	−0.0967
84	11	9	2.3	+0.6272	0.5981	−0.0919
85	11	10	49.9	+0.9366	0.5995	−0.0868
92	13	13	25.9	+1.1643	0.6154	+0.0764
94	13	13	52.3	+1.1499	0.6153	+0.0779
101	14	10	31.4	+0.9638	0.6059	+0.1407
104	15	15	17.0	+0.4826	0.5834	+0.2089

III. Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Nr. in Liste II	Konj. in Rekt. (Mittlere Zeit Greenwich) d h m	y	x'	y'
	Juli			
113	17 8 29.6	+0.2068	0.5498	+0.2593
115	17 10 0.8	+0.6433	0.5488	+0.2602
116	17 11 31.7	+0.4148	0.5478	+0.2609
117	17 15 3.5	+0.7045	0.5455	+0.2625
120	18 15 30.0	+0.3094	0.5330	+0.2646
5	22 9 54.0	+0.4911	0.5342	+0.1702
6	22 15 25.7	+1.2224	0.5357	+0.1602
9	23 12 49.4	+1.1182	0.5416	+0.1182
23	24 13 28.2	+0.1870	0.5469	+0.0640
	Aug.			
74	4 5 41.2	+0.2748	0.5185	−0.2326
77	5 7 27.6	+1.1867	0.5368	−0.2063
79	7 5 23.7	+0.4712	0.5775	−0.1210
88	8 9 6.7	+1.2611	0.5982	−0.0453
90	9 8 59.4	+0.6968	0.6070	+0.0294
95	10 10 47.8	+0.5602	0.6046	+0.1099
96	10 11 34.0	+0.7145	0.6043	+0.1122
97	10 12 20.1	+0.7063	0.6041	+0.1144
120	15 10 3.0	+1.0842	0.5382	+0.2655
124	15 14 42.4	+1.1587	0.5371	+0.2634
1	16 14 0.8	+0.5576	0.5344	+0.2460
2	17 15 48.9	+0.9933	0.5358	+0.2142
22	20 11 59.7	+1.2102	0.5478	+0.0831
31	22 15 5.3	+0.1585	0.5456	−0.0363
36	23 16 2.2	+1.0445	0.5387	−0.0913
52	25 16 31.3	+0.2856	0.5199	−0.1785
	Sept.			
101	7 5 36.7	+1.0923	0.5903	+0.1358
104	8 11 33.2	+0.5521	0.5750	+0.2041
115	10 6 45.9	+0.6178	0.5521	+0.2595
116	10 8 16.0	+0.3859	0.5516	+0.2605
117	10 11 45.7	+0.6664	0.5501	+0.2625
120	11 11 42.5	+0.2150	0.5429	+0.2673
3	14 15 53.4	+0.2905	0.5458	+0.1923
4	14 16 37.7	+1.2701	0.5459	+0.1910

Nr. in Liste II	Konj. in Rekt. (Mittlere Zeit Greenwich) d h m	y	x'	y'
	Sept.			
6	15 7 32.8	+0.9523	0.5487	+0.1631
8	15 15 5.9	+0.6986	0.5501	+0.1478
11	16 11 23.5	+0.2214	0.5528	+0.1035
17	16 12 2.2	+0.4627	0.5528	+0.1020
18	16 12 32.8	+0.3438	0.5529	+0.1009
19	16 12 56.3	+1.1172	0.5529	+0.1000
20	16 13 17.4	+0.4709	0.5529	+0.0992
21	16 13 18.0	+0.3820	0.5529	+0.0991
27	18 9 37.3	+1.1752	0.5502	−0.0060
29	18 14 17.5	+0.2807	0.5492	−0.0170
34	19 16 35.3	+0.3580	0.5410	−0.0763
40	20 12 41.4	+1.1997	0.5330	−0.1172
42	20 15 55.6	+1.2906	0.5317	−0.1234
54	22 13 2.1	+0.7123	0.5141	−0.1947
55	22 13 12.4	+0.3934	0.5140	−0.1949
	Okt.			
84	1 4 52.6	+1.0146	0.5826	−0.0886
98	4 5 4.1	+1.1405	0.5857	+0.1157
100	4 7 58.6	+1.0150	0.5845	+0.1232
109	6 10 13.7	+1.0932	0.5577	+0.2241
124	9 5 36.8	+1.0459	0.5381	+0.2612
126	9 10 17.7	+1.0992	0.5381	+0.2596
1	10 9 29.6	+0.3937	0.5402	+0.2446
2	11 10 48.1	+0.7274	0.5457	+0.2146
6	12 16 51.8	+0.7768	0.5536	+0.1626
9	13 13 10.9	+0.6280	0.5576	+0.1194
22	14 4 51.5	+0.7696	0.5591	+0.0831
24	14 13 24.6	+1.1489	0.5590	+0.0626
32	16 12 53.2	+1.0666	0.5482	−0.0508
36	17 7 28.0	+0.5620	0.5400	−0.0909
38	17 13 42.8	+0.9902	0.5370	−0.1035
46	18 8 51.2	+1.1460	0.5277	−0.1390
47	18 14 0.8	+0.8621	0.5251	−0.1477
48	18 16 32.9	+0.5479	0.5239	−0.1519
53	19 18 1.4	+1.0352	0.5131	−0.1888
58	20 15 29.6	+1.1051	0.5067	−0.2130

III. Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Nr. in Liste II	Konj. in Rekt. (Mittlere Zeit Greenwich) d h m	y	x'	y'
	Okt.			
65	21 18 50.5	+0.1067	0.5035	−0.2346
66	21 18 59.1	+0.9983	0.5035	−0.2347
95	31 6 35.0	+1.1711	0.5897	+0.1064
	Nov.			
107	2 8 0.3	+0.4914	0.5581	+0.2102
110	3 5 56.9	+0.7481	0.5454	+0.2371
112	3 9 12.4	+0.4610	0.5438	+0.2401
123	5 10 7.8	+0.1939	0.5315	+0.2562
124	5 12 52.1	+1.2226	0.5315	+0.2556
3	8 9 49.2	+0.1341	0.5477	+0.1882
4	8 10 33.6	+1.1144	0.5480	+0.1870
7	9 8 26.6	+1.0797	0.5553	+0.1460
8	9 8 56.8	+0.4388	0.5555	+0.1450
17	10 5 38.2	+0.1216	0.5604	+0.0997
19	10 6 31.5	+0.7704	0.5605	+0.0976
20	10 6 52.3	+0.1253	0.5606	+0.0968
22	10 13 29.4	+0.6327	0.5614	+0.0813
25	11 12 1.7	+1.2337	0.5610	+0.0266
26	11 12 50.7	+0.7533	0.5608	+0.0246
30	12 11 10.4	+1.1243	0.5554	−0.0292
36	13 15 43.0	+0.2987	0.5426	−0.0924
42	14 8 11.1	+0.7156	0.5337	−0.1243
43	14 8 36.4	+0.7585	0.5335	−0.1251
46	14 17 2.6	+0.8563	0.5288	−0.1399
51	15 13 20.9	+1.2236	0.5180	−0.1714
62	17 13 10.1	+0.5097	0.5011	−0.2224
63	17 14 5.2	+0.9828	0.5009	−0.2231
64	17 15 13.3	+1.0232	0.5007	−0.2239
70	19 14 50.8	+0.3304	0.5044	−0.2430
93	27 2 15.3	+0.7429	0.6051	+0.0768
104	29 6 25.7	+1.2583	0.5696	+0.2008
	Dez.			
115	1 3 9.0	+1.2417	0.5394	+0.2493
116	1 4 43.2	+0.9993	0.5386	+0.2500
117	1 8 22.6	+1.2715	0.5370	+0.2517
120	2 9 29.4	+0.6890	0.5293	+0.2548
121	2 11 8.7	+0.1169	0.5290	+0.2546
122	2 11 18.0	+0.2948	0.5290	+0.2546
5	6 3 3.0	+0.1221	0.5464	+0.1665
6	6 8 24.1	+0.8057	0.5484	+0.1566
7	6 15 30.3	+1.1479	0.5510	+0.1429
8	6 16 0.9	+0.5014	0.5511	+0.1419
9	7 5 4.3	+0.5626	0.5554	+0.1147
17	7 12 58.4	+0.1400	0.5574	+0.0972
19	7 13 52.3	+0.7907	0.5576	+0.0952
20	7 14 13.4	+0.1412	0.5576	+0.0944
24	8 5 30.7	+0.9845	0.5600	+0.0588
27	9 10 5.9	+0.6284	0.5583	−0.0101
30	9 18 50.6	+1.0459	0.5561	−0.0308
32	10 4 54.8	+0.7313	0.5527	−0.0541
33	10 7 4.4	+1.0950	0.5519	−0.0590
38	11 5 36.3	+0.5841	0.5413	−0.1066
40	11 12 36.7	+0.4827	0.5374	−0.1200
42	11 15 50.0	+0.5661	0.5356	−0.1260
43	11 16 15.3	+0.6085	0.5354	−0.1268
47	12 5 50.2	+0.4006	0.5277	−0.1501
49	12 10 21.1	+0.8450	0.5251	−0.1572
53	13 9 57.4	+0.5321	0.5126	−0.1893
58	14 7 41.8	+0.5891	0.5033	−0.2116
59	14 12 41.3	+1.0704	0.5017	−0.2157
66	15 11 47.3	+0.4916	0.4966	−0.2306
69	16 15 42.1	+0.2022	0.4973	−0.2394
72	17 11 59.2	+1.0512	0.5029	−0.2391
79	21 19 23.6	+0.9163	0.5868	−0.1156
113	28 8 43.0	+0.9302	0.5494	+0.2530
119	29 3 49.7	+0.4527	0.5396	+0.2586
125	30 2 40.4	+0.3705	0.5328	+0.2541
1	31 5 2.3	+0.8098	0.5314	+0.2359

Verfinsterungen

TRABANT I.

		h	m	s	
Jan.	1	14	57	9	A.
	3	9	26	2	A.
	5	3	54	53	A.
	6	22	23	44	A.
	8	16	52	33	A.
	10	11	21	25	A.
	12	5	50	14	A.
	14	0	19	5	A.
	15	18	47	53	A.
	17	13	16	43	A.
	19	7	45	33	A.
	21	2	14	22	A.
	22	20	43	10	A.
	24	15	11	59	A.
	26	9	40	47	A.
	28	4	9	35	A.
	29	22	38	22	A.
	31	17	7	10	A.
Febr.	2	11	35	58	A.
	4	6	4	44	A.
	6	0	33	30	A.
	7	19	2	17	A.
	9	13	31	3	A.
	11	7	59	48	A.
	13	2	28	32	A.
	14	20	57	19	A.
	16	15	26	4	A.
	18	9	54	48	A.
	20	4	23	31	A.
	21	22	52	16	A.
	23	17	21	1	A.
	25	11	49	44	A.
	27	6	18	25	A.
	29	0	47	8	A.
Mai	2	15	45	56	E.
	4	10	14	32	E.
	6	4	43	5	E.
	7	23	11	39	E.
	9	17	40	12	E.
	11	12	8	47	E.
	13	6	37	20	E.
	15	1	5	53	E.
	16	19	34	25	E.
	18	14	3	0	E.
	20	8	31	32	E.

TRABANT I.

		h	m	s	
Mai	22	3	0	5	E.
	23	21	28	37	E.
	25	15	57	11	E.
	27	10	25	41	E.
	29	4	54	14	E.
	30	23	22	45	E.
Juni	1	17	51	19	E.
	3	12	19	49	E.
	5	6	48	22	E.
	7	1	16	51	E.
	8	19	45	25	E.
	10	14	13	55	E.
	12	8	42	28	E.
	14	3	10	56	E.
	15	21	39	30	E.
	17	16	8	0	E.
	19	10	36	32	E.
	21	5	5	1	E.
	22	23	33	35	E.
	24	18	2	4	E.
	26	12	30	36	E.
	28	6	59	5	E.
	30	1	27	38	E.
Juli	1	19	56	7	E.
	3	14	24	40	E.
	5	8	53	8	E.
	7	3	21	42	E.
	8	21	50	11	E.
	10	16	18	44	E.
	12	10	47	12	E.
	14	5	15	46	E.
	15	23	44	15	E.
	17	18	12	48	E.
	19	12	41	16	E.
	21	7	9	51	E.
	23	1	38	20	E.
	24	20	6	55	E.
	26	14	35	22	E.
	28	9	3	58	E.
	30	3	32	27	E.
	31	22	1	2	E.
Aug.	2	16	29	30	E.
	4	10	58	6	E.
	6	5	26	36	E.
	7	23	55	11	E.
	9	18	23	39	E.

TRABANT I.

		h	m	s	
Aug.	11	12	52	16	E.
	13	7	20	46	E.
	15	1	49	22	E.
	16	20	17	52	E.
	18	14	46	30	E.
	20	9	15	1	E.
	22	3	43	38	E.
	23	22	12	8	E.
	25	16	40	47	E.
	27	11	9	19	E.
	29	5	37	57	E.
	31	0	6	28	E.
Sept.	1	18	35	8	E.
	3	13	3	41	E.
	5	7	32	20	E.
	7	2	0	52	E.
	8	20	29	34	E.
	10	14	58	8	E.
	12	9	26	47	E.
	14	3	55	23	E.
	15	22	24	5	E.
	17	16	52	41	E.
	19	11	21	23	E.
	21	5	49	58	E.
	23	0	18	42	E.
	24	18	47	20	E.
	26	13	16	3	E.
	28	7	44	40	E.
	30	2	13	26	E.
Okt.	1	20	42	5	E.
	3	15	10	51	E.
	5	9	39	29	E.
	7	4	8	16	E.
	8	22	36	57	E.
	10	17	5	45	E.
	12	11	34	25	E.
	14	6	3	14	E.
	16	0	31	57	E.
	17	19	0	47	E.
	19	13	29	29	E.
	21	7	58	19	E.
	23	2	27	4	E.
	24	23	6	49	A.
	26	17	35	32	A.
	28	12	4	23	A.
	30	6	33	8	A.

TRABANT I.

		h	m	s	
Nov.	1	1	2	1	A.
	2	19	30	46	A.
	4	13	59	38	A.
	6	8	28	26	A.
	8	2	57	20	A.
	9	21	26	6	A.
	11	15	55	0	A.
	13	10	23	49	A.
	15	4	52	44	A.
	16	23	21	33	A.
	18	17	50	27	A.
	20	12	19	18	A.
	22	6	48	14	A.
	24	1	17	4	A.
	25	19	46	0	A.
	27	14	14	52	A.
	29	8	43	50	A.
Dez.	1	3	12	40	A.
	2	21	41	37	A.
	4	16	10	30	A.
	6	10	39	29	A.
	8	5	8	20	A.
	9	23	37	19	A.
	11	18	6	12	A.
	13	12	35	11	A.
	15	7	4	3	A.
	17	1	33	1	A.
	18	20	1	55	A.
	20	14	30	56	A.
	22	8	59	48	A.
	24	3	28	47	A.
	25	21	57	40	A.
	27	16	26	41	A.
	29	10	55	33	A.
	31	5	24	32	A.

TRABANT II.

		h	m	s	
Jan.	1	8	53	52	A.
	4	22	13	26	A.
	8	11	32	19	A.
	12	0	51	56	A.
	15	14	10	47	A.
	19	3	30	29	A.
	22	16	49	21	A.
	26	6	9	4	A.

Verfinsterungen

TRABANT II.

		h	m	s	
Jan.	29	19	27	55	A.
Febr.	2	8	47	38	A.
	5	22	6	30	A.
	9	11	26	14	A.
	13	0	45	4	A.
	16	14	4	46	A.
	20	3	23	34	A.
	23	16	43	17	A.
	27	6	2	3	A.
Mai	1	3	1	14	E.
	4	16	20	18	E.
	8	5	38	36	E.
	11	18	57	30	E.
	15	8	15	45	E.
	18	21	34	32	E.
	22	10	52	42	E.
	26	0	11	21	E.
	29	13	29	29	E.
Juni	2	2	47	57	E.
	5	16	5	58	E.
	9	5	24	21	E.
	12	18	42	16	E.
	16	8	0	31	E.
	19	21	18	23	E.
	23	10	36	31	E.
	26	23	54	18	E.
	30	13	12	17	E.
Juli	4	2	30	1	E.
	4	5	8	12	A.
	7	15	47	53	E.
	7	18	25	53	A.
	11	5	5	34	E.
	11	7	43	23	A.
	14	18	23	19	E.
	14	21	0	57	A.
	18	7	40	54	E.
	18	10	18	23	A.
	21	20	58	35	E.
	21	23	35	53	A.
	25	10	16	7	E.
	25	12	53	17	A.
	28	23	33	43	E.
	29	2	10	41	A.
Aug.	1	12	51	12	E.
	1	15	28	1	A.

TRABANT II.

		h	m	s	
Aug.	5	2	8	41	E.
	5	4	45	20	A.
	8	15	26	9	E.
	8	18	2	39	A.
	12	4	43	35	E.
	12	7	19	55	A.
	15	18	1	0	E.
	15	20	37	12	A.
	19	7	18	22	E.
	19	9	54	24	A.
	22	20	35	45	E.
	26	9	53	6	E.
	29	23	10	29	E.
Sept.	2	12	27	48	E.
	6	1	45	10	E.
	9	15	2	30	E.
	13	4	19	53	E.
	16	17	37	14	E.
	20	6	54	36	E.
	23	20	11	58	E.
	27	9	29	24	E.
	30	22	46	48	E.
Okt.	4	12	4	16	E.
	8	1	21	44	E.
	11	14	39	14	E.
	15	3	56	47	E.
	18	17	14	21	E.
	22	6	31	59	E.
	25	22	23	28	A.
	29	11	41	7	A.
Nov.	2	0	58	46	A.
	5	14	16	30	A.
	9	3	34	14	A.
	12	16	52	3	A.
	16	6	9	54	A.
	19	19	27	50	A.
	23	8	45	48	A.
	26	22	3	49	A.
	30	11	21	53	A.
Dez.	4	0	40	0	A.
	7	13	58	12	A.
	11	3	16	24	A.
	14	16	34	41	A.
	18	5	52	59	A.
	21	19	11	24	A.
	25	8	29	47	A.

TRABANT II.

		h	m	s	
Dez.	28	21	48	18	A.

TRABANT III.

		h	m	s	
Jan.	6	3	3	14	E.
	6	5	45	14	A.
	13	7	5	43	E.
	13	9	46	22	A.
	20	11	7	59	E.
	20	13	47	17	A.
	27	15	10	21	E.
	27	17	48	18	A.
Febr.	3	19	13	11	E.
	3	21	49	46	A.
	10	23	15	42	E.
	11	1	50	54	A.
	18	3	18	35	E.
	18	5	52	25	A.
	25	9	53	6	A.
Mai	6	23	38	28	E.
	7	1	57	10	A.
	14	3	40	21	E.
	14	5	57	41	A.
	21	7	41	52	E.
	21	9	57	50	A.
	28	11	43	43	E.
	28	13	58	19	A.
Juni	4	15	44	47	E.
	4	17	58	3	A.
	11	19	45	44	E.
	11	21	57	40	A.
	18	23	46	36	E.
	19	1	57	13	A.
	26	3	47	39	E.
	26	5	56	56	A.
Juli	3	7	49	15	E.
	3	9	57	13	A.
	10	11	50	29	E.
	10	13	57	9	A.
	17	15	52	3	E.
	17	17	57	27	A.
	24	19	52	54	E.
	24	21	57	2	A.
	31	23	53	40	E.
Aug.	1	1	56	34	A.

TRABANT III.

		h	m	s	
Aug.	8	3	54	27	E.
	8	5	56	7	A.
	15	7	55	29	E.
	15	9	55	56	A.
	22	11	57	10	E.
	22	13	56	24	A.
	29	15	58	30	E.
	29	17	56	33	A.
Sept.	5	20	0	13	E.
	5	21	57	9	A.
	13	0	1	18	E.
	13	1	57	7	A.
	20	4	2	22	E.
	20	5	57	8	A.
	27	8	3	34	E.
	27	9	57	14	A.
Okt.	4	12	5	5	E.
	4	13	57	43	A.
	11	16	7	20	E.
	18	20	9	16	E.
	26	0	11	35	E.
	26	2	1	17	A.
Nov.	2	6	2	6	A.
	9	8	15	1	E.
	9	10	2	58	A.
	16	12	16	54	E.
	16	14	4	0	A.
	23	16	19	5	E.
	23	18	5	24	A.
	30	20	21	59	E.
	30	22	7	30	A.
Dez.	8	0	24	28	E.
	8	2	9	16	A.
	15	4	27	15	E.
	15	6	11	24	A.
	22	8	29	20	E.
	22	10	12	53	A.
	29	12	31	20	E.
	29	14	14	20	A.

TRABANT IV.

		h	m	s	
Jan.	4	2	13	42	E.
	4	3	34	21	A.
	20	20	48	11	E.
	20	21	32	26	A.

Mittlere Zeit Greenwich	α	β	p_a	a	b	U'	B'	P'
Jan. −0.5	20.72″	18.95″	−0.00″	46.66″	−19.54″	297.240°	−24.937°	−12.447°
+3.5	20.72	18.95	0.00	46.67	19.60	297.403	24.912	12.517
7.5	20.71	18.94	0.00	46.66	19.66	297.566	24.886	12.586
11.5	20.70	18.93	0.00	46.62	19.70	297.728	24.860	12.655
15.5	20.67	18.92	0.00	46.56	19.73	297.890	24.833	12.724
19.5	20.63	18.89	+0.00	46.46	−19.75	298.052	−24.806	−12.793
23.5	20.57	18.84	0.00	46.33	19.75	298.213	24.779	12.862
27.5	20.51	18.78	0.00	46.18	19.73	298.375	24.752	12.931
31.5	20.43	18.71	0.01	46.01	19.70	298.537	24.724	12.999
Febr. 4.5	20.34	18.63	0.01	45.81	19.66	298.699	24.697	13.068
8.5	20.24	18.54	+0.02	45.59	−19.60	298.860	−24.669	−13.136
12.5	20.13	18.44	0.03	45.35	19.53	299.022	24.641	13.205
16.5	20.02	18.34	0.03	45.10	19.45	299.183	24.613	13.273
20.5	19.90	18.24	0.03	44.82	19.36	299.344	24.585	13.341
24.5	19.78	18.13	0.04	44.54	19.26	299.505	24.556	13.409
28.5	19.65	18.01	+0.04	44.24	−19.15	299.667	−24.528	−13.477
März 3.5	19.51	17.88	0.05	43.94	19.04	299.828	24.500	13.544
7.5	19.37	17.75	0.05	43.63	18.92	299.989	24.471	13.612
11.5	19.23	17.62	0.05	43.32	18.79	300.149	24.442	13.679
15.5	19.09	17.49	0.05	43.01	18.66	300.310	24.413	13.747
19.5	18.95	17.36	+0.06	42.69	−18.52	300.471	−24.383	−13.814
23.5	18.80	17.23	0.06	42.37	18.38	300.632	24.354	13.881
27.5	18.66	17.10	0.06	42.06	18.23	300.792	24.324	13.948
31.5	18.52	16.98	0.06	41.75	18.09	300.952	24.294	14.015
April 4.5	18.39	16.86	0.06	41.44	17.94	301.112	24.264	14.082
8.5	18.26	16.73	+0.06	41.14	−17.79	301.273	−24.234	−14.149
12.5	18.13	16.61	0.05	40.84	17.65	301.433	24.204	14.215
16.5	18.00	16.49	0.05	40.56	17.50	301.593	24.174	14.281
20.5	17.88	16.38	0.05	40.28	17.35	301.753	24.143	14.347
24.5	17.76	16.27	0.05	40.01	17.20	301.913	24.112	14.413
28.5	17.65	16.17	+0.04	39.75	−17.06	302.073	−24.081	−14.479
Mai 2.5	17.54	16.07	0.04	39.51	16.91	302.233	24.050	14.545
6.5	17.44	15.97	0.04	39.28	16.77	302.392	24.019	14.611
10.5	17.34	15.88	0.04	39.05	16.63	302.552	23.988	14.677
14.5	17.25	15.79	0.03	38.84	16.50	302.712	23.956	14.742
18.5	17.16	15.71	+0.03	38.65	−16.36	302.871	−23.925	−14.807
22.5	17.08	15.63	0.03	38.47	16.23	303.030	23.893	14.872
26.5	17.00	15.56	0.02	38.30	16.10	303.189	23.861	14.937
30.5	16.93	15.50	0.02	38.14	15.97	303.349	23.829	15.002
Juni 3.5	16.87	15.44	0.02	38.00	15.85	303.508	23.797	15.067
7.5	16.81	15.38	+0.01	37.87	−15.74	303.667	−23.764	−15.131
11.5	16.76	15.33	0.01	37.75	15.62	303.826	23.732	15.196
15.5	16.71	15.28	0.00	37.65	15.51	303.985	23.699	15.260
19.5	16.68	15.24	0.00	37.57	15.40	304.144	23.666	15.324
23.5	16.64	15.21	0.00	37.49	15.30	304.302	23.633	15.388
27.5	16.61	15.18	+0.00	37.43	−15.20	304.461	−23.600	−15.452
Juli 1.5	16.58	15.16	0.00	37.38	15.10	304.619	23.566	15.516

Mittlere Zeit Greenwich		α	β	p_a	a	b	U'	B'	P'
Juli	1.5	16.″58	15.″16	+0.″00	37.″38	−15.″10	304.°619	−23.°566	−15.°516
	5.5	16.57	15.15	0.00	37.35	15.02	304.777	23.533	15.580
	9.5	16.57	15.14	0.00	37.33	14.93	304.935	23.499	15.643
	13.5	16.57	15.14	0.00	37.32	14.85	305.093	23.465	15.706
	17.5	16.57	15.14	0.00	37.33	14.77	305.251	23.431	15.769
	21.5	16.58	15.14	−0.00	37.36	−14.70	305.409	−23.397	−15.832
	25.5	16.60	15.15	0.00	37.40	14.63	305.566	23.362	15.895
	29.5	16.63	15.17	0.00	37.45	14.56	305.724	23.328	15.958
Aug.	2.5	16.66	15.20	0.00	37.52	14.51	305.882	23.293	16.020
	6.5	16.70	15.23	0.01	37.60	14.46	306.040	23.258	16.082
	10.5	16.74	15.26	−0.01	37.69	−14.41	306.197	−23.223	−16.144
	14.5	16.79	15.30	0.01	37.80	14.37	306.354	23.188	16.207
	18.5	16.85	15.35	0.01	37.92	14.33	306.511	23.152	16.269
	22.5	16.90	15.40	0.02	38.06	14.30	306.669	23.117	16.331
	26.5	16.96	15.46	0.02	38.21	14.27	306.826	23.081	16.392
	30.5	17.03	15.52	−0.02	38.38	−14.25	306.983	−23.045	−16.454
Sept.	3.5	17.11	15.59	0.02	38.56	14.24	307.140	23.009	16.515
	7.5	17.20	15.66	0.03	38.74	14.23	307.297	22.973	16.577
	11.5	17.29	15.74	0.03	38.94	14.23	307.453	22.936	16.638
	15.5	17.38	15.83	0.03	39.15	14.24	307.610	22.900	16.699
	19.5	17.48	15.92	−0.04	39.39	−14.25	307.766	−22.863	−16.760
	23.5	17.59	16.01	0.04	39.63	14.27	307.922	22.826	16.821
	27.5	17.70	16.11	0.04	39.87	14.29	308.078	22.789	16.881
Okt.	1.5	17.82	16.21	0.04	40.13	14.33	308.234	22.752	16.942
	5.5	17.94	16.32	0.05	40.40	14.37	308.390	22.715	17.002
	9.5	18.06	16.43	−0.05	40.68	−14.42	308.546	−22.678	−17.062
	13.5	18.19	16.54	0.05	40.97	14.47	308.702	22.640	17.122
	17.5	18.32	16.66	0.05	41.27	14.54	308.858	22.602	17.182
	21.5	18.46	16.78	0.05	41.57	14.61	309.014	22.564	17.242
	25.5	18.59	16.90	0.06	41.88	14.69	309.170	22.526	17.302
	29.5	18.73	17.03	−0.06	42.19	−14.77	309.325	−22.488	−17.361
Nov.	2.5	18.87	17.15	0.05	42.50	14.87	309.481	22.450	17.421
	6.5	19.01	17.27	0.05	42.82	14.97	309.636	22.412	17.480
	10.5	19.15	17.40	0.05	43.13	15.08	309.792	22.373	17.539
	14.5	19.29	17.53	0.05	43.44	15.19	309.947	22.334	17.597
	18.5	19.43	17.66	−0.05	43.75	−15.31	310.102	−22.296	−17.656
	22.5	19.56	17.78	0.04	44.05	15.45	310.257	22.257	17.714
	26.5	19.69	17.90	0.04	44.34	15.58	310.412	22.218	17.773
	30.5	19.81	18.01	0.04	44.62	15.71	310.566	22.179	17.831
Dez.	4.5	19.93	18.12	0.03	44.89	15.85	310.721	22.140	17.889
	8.5	20.04	18.22	−0.03	45.14	−15.98	310.875	−22.100	−17.947
	12.5	20.14	18.32	0.02	45.37	16.12	311.029	22.061	18.005
	16.5	20.24	18.42	0.02	45.59	16.26	311.183	22.021	18.062
	20.5	20.33	18.50	0.02	45.79	16.40	311.337	21.981	18.119
	24.5	20.41	18.57	0.01	45.97	16.53	311.491	21.941	18.176
	28.5	20.48	18.64	−0.01	46.11	−16.66	311.645	−21.901	−18.233
	32.5	20.53	18.69	0.01	46.24	16.79	311.798	21.860	18.290

Mittlere Zeit Greenwich	U	B	P	Mittlere Zeit Greenwich	U	B	P
Jan. 1.5	340.075°	−24.803°	−6.970°	April 2.5	336.606°	−25.666°	−6.826°
3.5	339.898	24.842	6.963	4.5	336.698	25.655	6.831
5.5	339.722	24.882	6.957	6.5	336.798	25.641	6.836
7.5	339.545	24.920	6.950	8.5	336.906	25.625	6.841
9.5	339.368	24.960	6.943	10.5	337.021	25.609	6.846
11.5	339.192	−24.998	−6.935	12.5	337.143	−25.590	−6.852
13.5	339.017	25.036	6.928	14.5	337.273	25.570	6.858
15.5	338.844	25.073	6.920	16.5	337.408	25.550	6.865
17.5	338.673	25.110	6.912	18.5	337.550	25.528	6.871
19.5	338.505	25.147	6.905	20.5	337.698	25.505	6.878
21.5	338.342	−25.182	−6.898	22.5	337.853	−25.480	−6.885
23.5	338.182	25.217	6.892	24.5	338.015	25.453	6.892
25.5	338.025	25.252	6.885	26.5	338.181	25.425	6.900
27.5	337.872	25.285	6.878	28.5	338.355	25.397	6.907
29.5	337.723	25.317	6.872	30.5	338.535	25.367	6.915
31.5	337.580	−25.348	−6.865	Mai 2.5	338.718	−25.335	−6.924
Febr. 2.5	337.440	25.378	6.858	4.5	338.906	25.302	6.932
4.5	337.307	25.407	6.852	6.5	339.100	25.269	6.940
6.5	337.179	25.434	6.847	8.5	339.300	25.234	6.949
8.5	337.057	25.460	6.842	10.5	339.503	25.198	6.957
10.5	336.942	−25.485	−6.837	12.5	339.712	−25.160	−6.966
12.5	336.833	25.508	6.832	14.5	339.926	25.121	6.975
14.5	336.733	25.531	6.827	16.5	340.144	25.080	6.984
16.5	336.638	25.553	6.823	18.5	340.366	25.038	6.993
18.5	336.550	25.575	6.820	20.5	340.591	24.995	7.003
20.5	336.470	−25.595	−6.817	22.5	340.821	−24.950	−7.013
22.5	336.397	25.612	6.813	24.5	341.054	24.905	7.023
24.5	336.330	25.627	6.810	26.5	341.290	24.859	7.031
26.5	336.272	25.642	6.807	28.5	341.530	24.811	7.040
28.5	336.222	25.656	6.805	30.5	341.774	24.762	7.048
März 1.5	336.180	−25.669	−6.803	Juni 1.5	342.021	−24.712	−7.058
3.5	336.147	25.680	6.802	3.5	342.271	24.661	7.066
5.5	336.122	25.689	6.802	5.5	342.523	24.609	7.075
7.5	336.103	25.697	6.802	7.5	342.778	24.556	7.083
9.5	336.093	25.703	6.800	9.5	343.035	24.502	7.091
11.5	336.092	−25.707	−6.800	11.5	343.293	−24.447	−7.100
13.5	336.100	25.710	6.800	13.5	343.553	24.392	7.109
15.5	336.115	25.712	6.802	15.5	343.817	24.335	7.116
17.5	336.138	25.712	6.803	17.5	344.082	24.277	7.124
19.5	336.168	25.712	6.805	19.5	344.348	24.217	7.133
21.5	336.207	−25.710	−6.807	21.5	344.615	−24.157	−7.141
23.5	336.254	25.706	6.809	23.5	344.883	24.095	7.148
25.5	336.309	25.701	6.812	25.5	345.153	24.033	7.155
27.5	336.371	25.694	6.816	27.5	345.423	23.970	7.162
29.5	336.442	25.686	6.819	29.5	345.695	23.907	7.168
31.5	336.521	25.676	6.822	Juli 1.5	345.968	23.843	7.175
April 2.5	336.606	−25.666	−6.826	3.5	346.242	−23.778	−7.182

Mittlere Zeit Greenwich	U	B	P	Mittlere Zeit Greenwich	U	B	P
Juli 3.5	346°.242	−23°.778	−7°.182	Okt. 3.5	356°.858	−20°.863	−7°.303
5.5	346.517	23.713	7.188	5.5	356.993	20.823	7.303
7.5	346.790	23.648	7.195	7.5	357.123	20.785	7.302
9.5	347.063	23.582	7.202	9.5	357.246	20.748	7.302
11.5	347.337	23.515	7.209	11.5	357.362	20.713	7.302
13.5	347.611	−23.447	−7.215	13.5	357.472	−20.680	−7.300
15.5	347.883	23.378	7.220	15.5	357.575	20.648	7.300
17.5	348.155	23.310	7.226	17.5	357.672	20.618	7.300
19.5	348.427	23.242	7.232	19.5	357.762	20.593	7.300
21.5	348.698	23.172	7.237	21.5	357.845	20.570	7.300
23.5	348.968	−23.103	−7.242	23.5	357.922	−20.548	−7.300
25.5	349.237	23.033	7.247	25.5	357.990	20.530	7.299
27.5	349.505	22.963	7.252	27.5	358.052	20.513	7.298
29.5	349.771	22.893	7.257	29.5	358.105	20.498	7.298
31.5	350.035	22.823	7.260	31.5	358.152	20.487	7.298
Aug. 2.5	350.298	−22.753	−7.263	Nov. 2.5	358.190	−20.477	−7.298
4.5	350.560	22.683	7.267	4.5	358.222	20.470	7.298
6.5	350.820	22.613	7.270	6.5	358.245	20.465	7.298
8.5	351.077	22.543	7.273	8.5	358.262	20.464	7.298
10.5	351.331	22.475	7.275	10.5	358.272	20.465	7.298
12.5	351.582	−22.405	−7.278	12.5	358.273	−20.468	−7.298
14.5	351.831	22.337	7.282	14.5	358.267	20.473	7.298
16.5	352.078	22.267	7.285	16.5	358.252	20.482	7.299
18.5	352.323	22.198	7.287	18.5	358.230	20.492	7.300
20.5	352.566	22.130	7.288	20.5	358.202	20.505	7.300
22.5	352.805	−22.063	−7.290	22.5	358.165	−20.522	−7.300
24.5	353.040	21.995	7.292	24.5	358.122	20.540	7.300
26.5	353.272	21.928	7.293	26.5	358.070	20.560	7.300
28.5	353.502	21.862	7.295	28.5	358.013	20.585	7.301
30.5	353.727	21.797	7.297	30.5	357.948	20.611	7.302
Sept. 1.5	353.948	−21.732	−7.298	Dez. 2.5	357.877	−20.638	−7.303
3.5	354.165	21.669	7.298	4.5	357.798	20.668	7.303
5.5	354.380	21.607	7.300	6.5	357.713	20.700	7.304
7.5	354.588	21.545	7.300	8.5	357.622	20.735	7.305
9.5	354.792	21.485	7.301	10.5	357.523	20.770	7.305
11.5	354.992	−21.426	−7.302	12.5	357.418	−20.808	−7.305
13.5	355.187	21.368	7.302	14.5	357.308	20.850	7.306
15.5	355.377	21.312	7.302	16.5	357.192	20.893	7.307
17.5	355.562	21.257	7.302	18.5	357.068	20.938	7.307
19.5	355.743	21.202	7.302	20.5	356.941	20.983	7.307
21.5	355.920	−21.148	−7.302	22.5	356.810	−21.030	−7.308
23.5	356.090	21.095	7.303	24.5	356.673	21.078	7.308
25.5	356.255	21.045	7.303	26.5	356.532	21.128	7.308
27.5	356.415	20.997	7.303	28.5	356.387	21.180	7.308
29.5	356.568	20.952	7.303	30.5	356.238	21.233	7.308
Okt. 1.5	356.717	20.907	7.303	32.5	356.085	−21.287	−7.308
3.5	356.858	−20.863	−7.303				

MIMAS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 1.5	222°.353	188°.22	1.50252	—13″.34
3.5	266.348	230.21	1.50258	—13.36
5.5	310.342	272.21	1.50256	—13.38
7.5	354.336	314.20	1.50247	—13.40
9.5	38.331	356.20	1.50232	—13.41
11.5	82.325	38.19	1.50210	—13.43
13.5	126.320	80.19	1.50180	—13.44
15.5	170.314	122.18	1.50145	—13.45
17.5	214.308	164.18	1.50102	—13.45
19.5	258.303	206.17	1.50053	—13.46
21.5	302.297	248.17	1.49998	—13.46
23.5	346.291	290.16	1.49936	—13.45
25.5	30.286	332.15	1.49866	—13.45
27.5	74.280	14.14	1.49794	—13.44
29.5	118.274	56.14	1.49714	—13.43
31.5	162.269	98.13	1.49628	—13.42
Febr. 2.5	206.263	140.13	1.49537	—13.41
4.5	250.258	182.12	1.49440	—13.40
6.5	294.252	224.12	1.49338	—13.38
8.5	338.246	266.11	1.49231	—13.36
10.5	22.240	308.10	1.49119	—13.33
12.5	66.235	350.10	1.49002	—13.31
14.5	110.229	32.09	1.48881	—13.28
16.5	154.223	74.08	1.48756	—13.26
18.5	198.217	116.08	1.48627	—13.23
20.5	242.211	158.07	1.48494	—13.20
22.5	286.206	200.07	1.48358	—13.16
24.5	330.200	242.06	1.48219	—13.13
26.5	14.194	284.06	1.48076	—13.09
28.5	58.188	326.05	1.47930	—13.06
März 1.5	102.182	8.05	1.47782	—13.02
3.5	146.176	50.04	1.47632	—12.98
5.5	190.170	92.04	1.47479	—12.94
7.5	234.165	134.03	1.47324	—12.90
9.5	278.159	176.03	1.47168	—12.85
11.5	322.153	218.02	1.47010	—12.81
13.5	6.147	260.02	1.46852	—12.76
15.5	50.142	302.01	1.46692	—12.72
17.5	94.136	344.00	1.46531	—12.67
19.5	138.130	26.00	1.46370	—12.62
März 19.5	138°.130	26°.00	1.46370	—12″.62
21.5	182.124	67.99	1.46208	—12.57
23.5	226.118	109.98	1.46046	—12.52
25.5	270.112	151.98	1.45884	—12.47
27.5	314.106	193.97	1.45722	—12.43
29.5	358.100	235.97	1.45560	—12.38
31.5	42.094	277.96	1.45399	—12.33
April 2.5	86.088	319.95	1.45239	—12.28
4.5	130.082	1.95	1.45079	—12.23
6.5	174.076	43.94	1.44921	—12.18
8.5	218.070	85.94	1.44763	—12.13
10.5	262.064	127.93	1.44607	—12.07
12.5	306.058	169.92	1.44453	—12.02
14.5	350.052	211.92	1.44300	—11.97
16.5	34.046	253.91	1.44149	—11.92
18.5	78.040	295.90	1.44000	—11.87
20.5	122.034	337.90	1.43853	—11.82
22.5	166.028	19.89	1.43708	—11.77
24.5	210.022	61.88	1.43565	—11.72
26.5	254.016	103.87	1.43424	—11.67
28.5	298.009	145.86	1.43286	—11.62
30.5	342.003	187.86	1.43151	—11.57
Mai 2.5	25.996	229.85	1.43018	—11.52
4.5	69.990	271.85	1.42887	—11.47
Sept. 17.5	181.554	247.42	1.42750	— 9.70
19.5	225.548	289.41	1.42877	— 9.71
21.5	269.541	331.40	1.43007	— 9.71
23.5	313.534	13.40	1.43139	— 9.72
25.5	357.528	55.39	1.43275	— 9.73
27.5	41.521	97.38	1.43413	— 9.74
29.5	85.514	139.38	1.43553	— 9.75
Okt. 1.5	129.507	181.37	1.43695	— 9.76
3.5	173.500	223.36	1.43840	— 9.77
5.5	217.494	265.35	1.43987	— 9.78
7.5	261.487	307.35	1.44136	— 9.80
9.5	305.480	349.34	1.44286	— 9.82
11.5	349.473	31.33	1.44439	— 9.84
13.5	33.466	73.32	1.44592	— 9.86
15.5	77.459	115.32	1.44747	— 9.88

MIMAS

Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B	Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B
Okt. 15.5	77.459°	115.32°	1.44747	— 9.88″	Nov. 24.5	237.321°	235.18°	1.47876	—10.57″
17.5	121.453	157.31	1.44904	— 9.90	26.5	281.314	277.17	1.48018	—10.61
19.5	165.446	199.30	1.45061	— 9.93	28.5	325.307	319.16	1.48157	—10.66
21.5	209.439	241.30	1.45220	— 9.95	30.5	9.300	1.15	1.48293	—10.70
23.5	253.433	283.29	1.45379	— 9.98	Dez. 2.5	53.293	43.15	1.48425	—10.75
25.5	297.426	325.28	1.45539	—10.01	4.5	97.286	85.14	1.48553	—10.79
27.5	341.419	7.28	1.45700	—10.04	6.5	141.279	127.14	1.48678	—10.84
29.5	25.412	49.27	1.45860	—10.07	8.5	185.271	169.13	1.48798	—10.89
31.5	69.405	91.27	1.46021	—10.10	10.5	229.264	211.13	1.48914	—10.94
Nov. 2.5	113.398	133.26	1.46181	—10.13	12.5	273.257	253.12	1.49026	—10.98
4.5	157.391	175.25	1.46341	—10.16	14.5	317.250	295.11	1.49133	—11.03
6.5	201.385	217.25	1.46501	—10.20	16.5	1.243	337.10	1.49234	—11.08
8.5	245.378	259.24	1.46659	—10.24	18.5	45.236	19.10	1.49331	—11.13
10.5	289.371	301.23	1.46817	—10.27	20.5	89.229	61.09	1.49422	—11.17
12.5	333.364	343.22	1.46974	—10.31	22.5	133.222	103.09	1.49508	—11.22
14.5	17.357	25.22	1.47129	—10.35	24.5	177.215	145.08	1.49588	—11.26
16.5	61.350	67.21	1.47282	—10.40	26.5	221.208	187.07	1.49662	—11.31
18.5	105.343	109.20	1.47434	—10.44	28.5	265.201	229.06	1.49730	—11.35
20.5	149.336	151.19	1.47584	—10.48	30.5	309.193	271.06	1.49792	—11.40
22.5	193.328	193.18	1.47731	—10.52	32.5	353.186	313.05	1.49848	—11.44
24.5	237.321	235.18	1.47876	—10.57					

ENCELADUS

Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B	Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B
Jan. 1.5	199.470	314.8	1.61073	—17.12	Jan. 31.5	161.413	266.7	1.60449	—17.22
3.5	4.933	119.6	1.61079	—17.15	Febr. 2.5	326.875	71.5	1.60358	—17.20
5.5	170.396	284.4	1.61077	—17.17	4.5	132.338	236.3	1.60261	—17.18
7.5	335.858	89.2	1.61068	—17.19	6.5	297.800	41.1	1.60159	—17.16
9.5	141.321	254.0	1.61053	—17.21	8.5	103.263	205.8	1.60052	—17.14
11.5	306.784	58.8	1.61031	—17.23	10.5	268.726	10.6	1.59940	—17.11
13.5	112.247	223.6	1.61001	—17.24	12.5	74.188	175.4	1.59823	—17.08
15.5	277.710	28.4	1.60966	—17.25	14.5	239.651	340.2	1.59702	—17.04
17.5	83.173	193.2	1.60923	—17.26	16.5	45.114	145.0	1.59577	—17.01
19.5	248.636	358.0	1.60874	—17.26	18.5	210.576	309.8	1.59448	—16.97
21.5	54.099	162.8	1.60819	—17.26	20.5	16.038	114.6	1.59315	—16.93
23.5	219.562	327.5	1.60757	—17.26	22.5	181.501	279.4	1.59179	—16.89
25.5	25.025	132.3	1.60689	—17.25	24.5	346.963	84.2	1.59040	—16.84
27.5	190.488	297.1	1.60615	—17.24	26.5	152.426	248.9	1.58897	—16.79
29.5	355.950	101.9	1.60535	—17.23	28.5	317.888	53.7	1.58751	—16.75
31.5	161.413	266.7	1.60449	—17.22	März 1.5	123.351	218.5	1.58603	—16.70

ENCELADUS

Mittlere Zeit Greenwich		L	M	log $\frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho}\sin B$	Mittlere Zeit Greenwich		L	M	log $\frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho}\sin B$
März	1.5	123.351	218.5	1.58603	−16.70	Sept.	25.5	51.375	76.2	1.54096	−12.48
	3.5	288.813	23.3	1.58453	−16.65		27.5	216.836	241.0	1.54234	−12.49
	5.5	94.275	188.1	1.58300	−16.60		29.5	22.297	45.8	1.54374	−12.51
	7.5	259.737	352.9	1.58145	−16.55	Okt.	1.5	187.758	210.6	1.54516	−12.52
	9.5	65.200	157.7	1.57989	−16.49		3.5	353.220	15.4	1.54661	−12.54
	11.5	230.662	322.4	1.57831	−16.43		5.5	158.681	180.1	1.54808	−12.56
	13.5	36.124	127.2	1.57673	−16.37		7.5	324.143	344.9	1.54957	−12.58
	15.5	201.587	292.0	1.57513	−16.31		9.5	129.604	149.7	1.55107	−12.60
	17.5	7.049	96.8	1.57352	−16.25		11.5	295.066	314.5	1.55260	−12.62
	19.5	172.512	261.6	1.57191	−16.19		13.5	100.527	119.3	1.55413	−12.65
	21.5	337.974	66.4	1.57029	−16.13		15.5	265.988	284.1	1.55568	−12.68
	23.5	143.436	231.2	1.56867	−16.07		17.5	71.449	88.9	1.55725	−12.70
	25.5	308.898	36.0	1.56705	−16.00		19.5	236.910	253.7	1.55882	−12.73
	27.5	114.361	200.7	1.56543	−15.94		21.5	42.372	58.4	1.56041	−12.76
	29.5	279.823	5.5	1.56381	−15.88		23.5	207.833	223.2	1.56200	−12.80
	31.5	85.285	170.3	1.56220	−15.82		25.5	13.294	28.0	1.56360	−12.84
April	2.5	250.748	335.1	1.56060	−15.75		27.5	178.756	192.8	1.56521	−12.88
	4.5	56.210	139.8	1.55900	−15.69		29.5	344.217	357.6	1.56681	−12.92
	6.5	221.672	304.6	1.55742	−15.62		31.5	149.678	162.4	1.56842	−12.96
	8.5	27.134	109.4	1.55584	−15.56	Nov.	2.5	315.139	327.2	1.57002	−13.00
	10.5	192.596	274.2	1.55428	−15.49		4.5	120.600	132.0	1.57162	−13.04
	12.5	358.058	79.0	1.55274	−15.43		6.5	286.062	296.8	1.57322	−13.08
	14.5	163.520	243.8	1.55121	−15.36		8.5	91.523	101.5	1.57480	−13.13
	16.5	328.982	48.6	1.54970	−15.30		10.5	256.984	266.3	1.57638	−13.18
	18.5	134.444	213.4	1.54821	−15.23		12.5	62.445	71.1	1.57795	−13.23
	20.5	299.906	18.2	1.54674	−15.17		14.5	227.906	235.9	1.57950	−13.28
	22.5	105.368	183.0	1.54528	−15.10		16.5	33.367	40.7	1.58103	−13.33
	24.5	270.830	347.8	1.54386	−15.04		18.5	198.828	205.5	1.58255	−13.38
	26.5	76.292	152.6	1.54245	−14.97		20.5	4.290	10.3	1.58405	−13.44
	28.5	241.755	317.3	1.54107	−14.91		22.5	169.751	175.1	1.58552	−13.50
	30.5	47.217	122.1	1.53972	−14.85		24.5	335.212	339.8	1.58697	−13.56
Mai	2.5	212.679	286.9	1.53839	−14.79		26.5	140.674	144.6	1.58839	−13.62
	4.5	18.141	91.7	1.53708	−14.72		28.5	306.135	309.4	1.58978	−13.67
							30.5	111.596	114.2	1.59114	−13.73
						Dez.	2.5	277.057	279.0	1.59246	−13.79
Sept.	17.5	109.529	137.1	1.53571	−12.45		4.5	82.518	83.8	1.59374	−13.85
	19.5	274.991	301.9	1.53698	−12.46		6.5	247.979	248.6	1.59499	−13.91
	21.5	80.452	106.6	1.53828	−12.46		8.5	53.440	53.4	1.59619	−13.97
	23.5	245.914	271.4	1.53960	−12.47		10.5	218.902	218.1	1.59735	−14.03
	25.5	51.375	76.2	1.54096	−12.48		12.5	24.363	22.9	1.59847	−14.09

ENCELADUS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Dez. 12.5	24°363	22°9	1.59847	−14″09
14.5	189.824	187.7	1.59954	−14.15
16.5	355.285	352.5	1.60055	−14.22
18.5	160.746	157.3	1.60152	−14.28
20.5	326.207	322.1	1.60243	−14.34
22.5	131.669	126.9	1.60329	−14.39
Dez. 22.5	131°669	126°9	1.60329	−14″39
24.5	297.130	291.7	1.60409	−14.45
26.5	102.591	96.4	1.60483	−14.51
28.5	268.053	261.2	1.60551	−14.57
30.5	73.514	66.0	1.60613	−14.62
32.5	238.975	230.8	1.60669	−14.68

TETHYS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 1.5	201.763		1.70343	−21.19
3.5	223.158		1.70349	−21.22
5.5	244.554		1.70347	−21.25
7.5	265.949		1.70338	−21.28
9.5	287.345		1.70323	−21.30
11.5	308.740		1.70301	−21.32
13.5	330.135		1.70271	−21.34
15.5	351.531		1.70236	−21.36
17.5	12.926		1.70193	−21.37
19.5	34.321		1.70144	−21.37
21.5	55.716		1.70089	−21.37
23.5	77.112		1.70027	−21.37
25.5	98.507		1.69959	−21.36
27.5	119.903		1.69885	−21.35
29.5	141.298		1.69805	−21.34
31.5	162.693		1.69719	−21.32
Febr. 2.5	184.089		1.69628	−21.30
4.5	205.484		1.69531	−21.27
6.5	226.880		1.69429	−21.24
8.5	248.275		1.69322	−21.21
10.5	269.671		1.69210	−21.17
12.5	291.066		1.69093	−21.14
14.5	312.462		1.68972	−21.10
16.5	333.857		1.68847	−21.06
18.5	355.253		1.68718	−21.01
20.5	16.648		1.68585	−20.96
22.5	38.044		1.68449	−20.90
24.5	59.439		1.68310	−20.85
26.5	80.834		1.68167	−20.79
28.5	102.230		1.68021	−20.73
März 1.5	123.625		1.67873	−20.67
März 1.5	123.625		1.67873	−20.67
3.5	145.020		1.67723	−20.61
5.5	166.416		1.67570	−20.54
7.5	187.811		1.67415	−20.48
9.5	209.207		1.67259	−20.41
11.5	230.602		1.67101	−20.34
13.5	251.998		1.66943	−20.27
15.5	273.393		1.66783	−20.20
17.5	294.789		1.66622	−20.12
19.5	316.184		1.66461	−20.04
21.5	337.580		1.66299	−19.96
23.5	358.975		1.66137	−19.89
25.5	20.371		1.65975	−19.81
27.5	41.766		1.65813	−19.73
29.5	63.162		1.65651	−19.65
31.5	84.557		1.65490	−19.58
April 2.5	105.953		1.65330	−19.50
4.5	127.348		1.65170	−19.42
6.5	148.744		1.65012	−19.34
8.5	170.139		1.64854	−19.26
10.5	191.534		1.64698	−19.17
12.5	212.930		1.64544	−19.09
14.5	234.325		1.64391	−19.01
16.5	255.720		1.64240	−18.93
18.5	277.116		1.64091	−18.85
20.5	298.511		1.63944	−18.77
22.5	319.906		1.63798	−18.70
24.5	341.302		1.63656	−18.62
26.5	2.697		1.63515	−18.54
28.5	24.093		1.63377	−18.46
30.5	45.488		1.63242	−18.38

TETHYS

Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B	Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B
April 30.5	45°.488		1.63242	−18″.38	Nov. 6.5	278°.057		1.66592	−16″.20
Mai 2.5	66.884		1.63109	−18.30	8.5	299.453		1.66750	−16.26
4.5	88.279		1.62978	−18.23	10.5	320.848		1.66908	−16.32
					12.5	342.244		1.67065	−16.38
Sept. 17.5	103.170		1.62841	−15.41	14.5	3.639		1.67220	−16.44
19.5	124.565		1.62968	−15.42	16.5	25.035		1.67373	−16.51
21.5	145.961		1.63098	−15.42	18.5	46.430		1.67525	−16.57
23.5	167.356		1.63230	−15.44	20.5	67.826		1.67675	−16.64
25.5	188.752		1.63366	−15.45	22.5	89.221		1.67822	−16.71
27.5	210.147		1.63504	−15.46	24.5	110.616		1.67967	−16.78
29.5	231.543		1.63644	−15.48	26.5	132.012		1.68109	−16.85
Okt. 1.5	252.938		1.63786	−15.50	28.5	153.407		1.68248	−16.92
3.5	274.334		1.63931	−15.52	30.5	174.803		1.68384	−16.99
5.5	295.729		1.64078	−15.54	Dez. 2.5	196.198		1.68516	−17.07
7.5	317.125		1.64227	−15.57	4.5	217.594		1.68644	−17.14
9.5	338.520		1.64377	−15.60	6.5	238.989		1.68769	−17.22
11.5	359.916		1.64530	−15.63	8.5	260.385		1.68889	−17.29
13.5	21.311		1.64683	−15.66	10.5	281.780		1.69005	−17.37
15.5	42.707		1.64838	−15.69	12.5	303.176		1.69117	−17.44
17.5	64.102		1.64995	−15.72	14.5	324.571		1.69224	−17.52
19.5	85.498		1.65152	−15.76	16.5	345.967		1.69325	−17.59
21.5	106.893		1.65311	−15.80	18.5	7.362		1.69422	−17.67
23.5	128.289		1.65470	−15.85	20.5	28.758		1.69513	−17.74
25.5	149.684		1.65630	−15.89	22.5	50.153		1.69599	−17.82
27.5	171.080		1.65791	−15.94	24.5	71.549		1.69679	−17.89
29.5	192.475		1.65951	−15.99	26.5	92.944		1.69753	−17.96
31.5	213.871		1.66112	−16.04	28.5	114.340		1.69821	−18.03
Nov. 2.5	235.266		1.66272	−16.09	30.5	135.735		1.69883	−18.10
4.5	256.662		1.66432	−16.14	32.5	157.131		1.69939	−18.17
6.5	278.057		1.66592	−16.20					

DIONE

Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B	Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B
Jan. 1.5	221.721	73.3	1.81090	−27.14	Jan. 11.5	97.070	307.8	1.81048	−27.32
3.5	124.791	336.2	1.81096	−27.19	13.5	0.139	210.7	1.81018	−27.34
5.5	27.861	239.1	1.81094	−27.23	15.5	263.209	113.6	1.80983	−27.35
7.5	290.930	142.0	1.81085	−27.26	17.5	166.279	16.5	1.80940	−27.36
9.5	194.000	44.9	1.81070	−27.29	19.5	69.349	279.4	1.80891	−27.37
11.5	97.070	307.8	1.81048	−27.32	21.5	332.419	182.3	1.80836	−27.37

DIONE

Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B	Mittlere Zeit Greenwich	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B
Jan. 21.5	332°.419	182°.3	1.80836	−27".37	April 8.5	152°.141	355°.4	1.75601	−24".67
23.5	235.488	85.2	1.80774	−27.37	10.5	55.211	258.3	1.75445	−24.56
25.5	138.558	348.1	1.80706	−27.36	12.5	318.281	161.2	1.75291	−24.46
27.5	41.628	251.0	1.80632	−27.35	14.5	221.351	64.1	1.75138	−24.35
29.5	304.697	153.9	1.80552	−27.33	16.5	124.420	327.0	1.74987	−24.25
31.5	207.767	56.8	1.80466	−27.31	18.5	27.490	229.9	1.74838	−24.15
Febr. 2.5	110.837	319.7	1.80375	−27.28	20.5	290.560	132.8	1.74691	−24.05
4.5	13.907	222.6	1.80278	−27.25	22.5	193.630	35.7	1.74545	−23.94
6.5	276.977	125.5	1.80176	−27.21	24.5	96.700	298.6	1.74403	−23.84
8.5	180.047	28.4	1.80069	−27.17	26.5	359.770	201.5	1.74262	−23.74
10.5	83.117	291.3	1.79957	−27.12	28.5	262.840	104.4	1.74124	−23.64
12.5	346.186	194.2	1.79840	−27.07	30.5	165.909	7.3	1.73989	−23.54
14.5	249.256	97.1	1.79719	−27.02	Mai 2.5	68.979	270.2	1.73856	−23.44
16.5	152.326	0.0	1.79594	−26.96	4.5	332.049	173.1	1.73725	−23.34
18.5	55.396	262.9	1.79465	−26.90					
20.5	318.466	165.8	1.79332	−26.84	Sept. 17.5	220.804	50.4	1.73588	−19.74
22.5	221.536	68.7	1.79196	−26.77	19.5	123.874	313.3	1.73715	−19.75
24.5	124.605	331.6	1.79057	−26.70	21.5	26.944	216.2	1.73845	−19.76
26.5	27.675	234.5	1.78914	−26.63	23.5	290.013	119.1	1.73977	−19.77
28.5	290.745	137.4	1.78768	−26.56	25.5	193.083	22.0	1.74113	−19.79
März 1.5	193.814	40.3	1.78620	−26.48	27.5	96.153	284.9	1.74251	−19.81
3.5	96.884	303.2	1.78470	−26.40	29.5	359.223	187.8	1.74391	−19.83
5.5	359.954	206.1	1.78317	−26.31	Okt. 1.5	262.293	90.7	1.74533	−19.85
7.5	263.024	109.0	1.78162	−26.23	3.5	165.363	353.6	1.74678	−19.88
9.5	166.094	11.9	1.78006	−26.14	5.5	68.433	256.5	1.74825	−19.91
11.5	69.164	274.8	1.77848	−26.05	7.5	331.503	159.4	1.74974	−19.94
13.5	332.234	177.7	1.77690	−25.95	9.5	234.573	62.2	1.75124	−19.98
15.5	235.303	80.6	1.77530	−25.86	11.5	137.643	325.1	1.75277	−20.02
17.5	138.373	343.5	1.77369	−25.76	13.5	40.713	228.0	1.75430	−20.06
19.5	41.443	246.4	1.77208	−25.67	15.5	303.783	130.9	1.75585	−20.10
21.5	304.513	149.3	1.77046	−25.57	17.5	206.853	33.8	1.75742	−20.14
23.5	207.583	52.2	1.76884	−25.47	19.5	109.923	296.7	1.75899	−20.19
25.5	110.653	315.1	1.76722	−25.37	21.5	12.993	199.6	1.76058	−20.24
27.5	13.722	218.0	1.76560	−25.27	23.5	276.062	102.5	1.76217	−20.30
29.5	276.792	120.9	1.76398	−25.17	25.5	179.132	5.4	1.76377	−20.36
31.5	179.862	23.8	1.76237	−25.07	27.5	82.202	268.3	1.76538	−20.42
April 2.5	82.931	286.7	1.76077	−24.97	29.5	345.272	171.2	1.76698	−20.48
4.5	346.001	189.6	1.75917	−24.88	31.5	248.342	74.1	1.76859	−20.54
6.5	249.071	92.5	1.75759	−24.78	Nov. 2.5	151.412	337.0	1.77019	−20.61
8.5	152.141	355.4	1.75601	−24.67	4.5	54.482	239.9	1.77179	−20.68

DIONE

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$	Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Nov. 4.5	54°482	239°9	1.77179	−20″68	Dez. 4.5	40°532	223°5	1.79391	−21″96
6.5	317.552	142.8	1.77339	−20.75	6.5	303.602	126.4	1.79516	−22.06
8.5	220.622	45.7	1.77497	−20.82	8.5	206.672	29.3	1.79636	−22.15
10.5	123.692	308.6	1.77655	−20.90	10.5	109.741	292.2	1.79752	−22.25
12.5	26.762	211.5	1.77812	−20.98	12.5	12.811	195.1	1.79864	−22.34
14.5	289.832	114.4	1.77967	−21.06	14.5	275.881	98.0	1.79971	−22.44
16.5	192.902	17.3	1.78120	−21.14	16.5	178.951	0.9	1.80072	−22.54
18.5	95.972	280.2	1.78272	−21.22	18.5	82.021	263.8	1.80169	−22.64
20.5	359.042	183.1	1.78422	−21.31	20.5	345.091	166.7	1.80260	−22.73
22.5	262.112	86.0	1.78569	−21.40	22.5	248.161	69.6	1.80346	−22.82
24.5	165.182	349.0	1.78714	−21.49	24.5	151.231	332.5	1.80426	−22.92
26.5	68.252	251.9	1.78856	−21.58	26.5	54.301	235.4	1.80500	−23.01
28.5	331.322	154.8	1.78995	−21.68	28.5	317.371	138.3	1.80568	−23.10
30.5	234.392	57.7	1.79131	−21.77	30.5	220.441	41.2	1.80630	−23.18
Dez. 2.5	137.462	320.6	1.79263	−21.86	32.5	123.511	304.1	1.80686	−23.27
4.5	40.532	223.5	1.79391	−21.96					

RHEA

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$	Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 1.5	244.176	155.0	1.95594	−37.91	Febr. 10.5	191.774	101.5	1.94461	−37.88
3.5	43.556	314.4	1.95600	−37.97	12.5	351.154	260.9	1.94344	−37.81
5.5	202.936	113.7	1.95598	−38.02	14.5	150.534	60.2	1.94223	−37.73
7.5	2.316	273.0	1.95589	−38.07	16.5	309.914	219.5	1.94098	−37.65
9.5	161.696	72.3	1.95574	−38.11	18.5	109.294	18.8	1.93969	−37.57
11.5	321.075	231.7	1.95552	−38.14	20.5	268.674	178.1	1.93836	−37.48
13.5	120.455	31.0	1.95522	−38.17	22.5	68.054	337.4	1.93700	−37.39
15.5	279.835	190.3	1.95487	−38.19	24.5	227.434	136.8	1.93561	−37.29
17.5	79.215	349.6	1.95444	−38.21	26.5	26.814	296.1	1.93418	−37.19
19.5	238.595	148.9	1.95395	−38.22	28.5	186.194	95.4	1.93272	−37.08
21.5	37.975	308.2	1.95340	−38.22	März 1.5	345.574	254.8	1.93124	−36.97
23.5	197.355	107.6	1.95278	−38.21	3.5	144.954	54.1	1.92974	−36.86
25.5	356.735	266.9	1.95210	−38.20	5.5	304.334	213.4	1.92821	−36.74
27.5	156.115	66.3	1.95136	−38.18	7.5	103.714	12.7	1.92666	−36.62
29.5	315.495	225.6	1.95056	−38.16	9.5	263.094	172.0	1.92510	−36.50
31.5	114.875	24.9	1.94970	−38.13	11.5	62.474	331.4	1.92352	−36.38
Febr. 2.5	274.255	184.2	1.94879	−38.09	13.5	221.854	130.7	1.92194	−36.25
4.5	73.635	343.5	1.94782	−38.04	15.5	21.234	290.1	1.92034	−36.12
6.5	233.015	142.8	1.94680	−37.99	17.5	180.614	89.4	1.91873	−35.98
8.5	32.394	302.2	1.94573	−37.94	19.5	339.994	248.7	1.91712	−35.85
10.5	191.774	101.5	1.94461	−37.88	21.5	139.374	47.9	1.91550	−35.71

RHEA

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$	Mittlere Zeit Greenwich	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
März 21.5	139°.374	47°.9	1.91550	−35″.71	Okt. 15.5	154°.888	57°.7	1.90089	−28″.07
23.5	298.754	207.2	1.91388	−35.58	17.5	314.268	217.0	1.90246	−28.13
25.5	98.134	6.5	1.91226	−35.44	19.5	113.648	16.3	1.90403	−28.20
27.5	257.514	165.8	1.91064	−35.30	21.5	273.028	175.7	1.90562	−28.27
29.5	56.894	325.2	1.90902	−35.15	23.5	72.408	335.0	1.90721	−28.35
31.5	216.274	124.5	1.90741	−35.01	25.5	231.788	134.3	1.90881	−28.43
April 2.5	15.654	283.8	1.90581	−34.87	27.5	31.168	293.7	1.91042	−28.51
4.5	175.034	83.2	1.90421	−34.73	29.5	190.548	93.0	1.91202	−28.60
6.5	334.413	242.5	1.90263	−34.58	31.5	349.927	252.3	1.91363	−28.69
8.5	133.793	41.8	1.90105	−34.44	Nov. 2.5	149.307	51.7	1.91523	−28.78
10.5	293.173	201.1	1.89949	−34.30	4.5	308.687	211.0	1.91683	−28.88
12.5	92.553	0.5	1.89795	−34.16	6.5	108.067	10.3	1.91843	−28.98
14.5	251.933	159.8	1.89642	−34.01	8.5	267.447	169.6	1.92001	−29.08
16.5	51.313	319.2	1.89491	−33.87	10.5	66.827	329.0	1.92159	−29.19
18.5	210.693	118.5	1.89342	−33.72	12.5	226.207	128.3	1.92316	−29.30
20.5	10.073	277.8	1.89195	−33.58	14.5	25.587	287.6	1.92471	−29.41
22.5	169.453	77.1	1.89049	−33.43	16.5	184.967	86.9	1.92624	−29.53
24.5	328.833	236.4	1.88907	−33.29	18.5	344.347	246.2	1.92776	−29.64
26.5	128.213	35.8	1.88766	−33.15	20.5	143.727	45.5	1.92926	−29.76
28.5	287.593	195.1	1.88628	−33.01	22.5	303.107	204.9	1.93073	−29.88
30.5	86.973	354.4	1.88493	−32.87	24.5	102.487	4.2	1.93218	−30.01
Mai 2.5	246.353	153.8	1.88360	−32.73	26.5	261.867	163.5	1.93360	−30.14
4.5	45.733	313.1	1.88229	−32.60	28.5	61.247	322.9	1.93499	−30.27
					30.5	220.627	122.2	1.93635	−30.40
					Dez. 2.5	20.006	281.5	1.93767	−30.53
Sept. 17.5	83.569	347.2	1.88092	−27.56	4.5	179.386	80.8	1.93895	−30.66
19.5	242.949	146.5	1.88219	−27.57	6.5	338.766	240.1	1.94020	−30.80
21.5	42.329	305.9	1.88349	−27.59	8.5	138.146	39.5	1.94140	−30.93
23.5	201.709	105.2	1.88481	−27.61	10.5	297.526	198.8	1.94256	−31.07
25.5	1.089	264.5	1.88617	−27.63	12.5	96.906	358.2	1.94368	−31.20
27.5	160.469	63.8	1.88755	−27.66	14.5	256.286	157.5	1.94475	−31.34
29.5	319.848	223.1	1.88895	−27.69	16.5	55.666	316.8	1.94576	−31.47
Okt. 1.5	119.228	22.4	1.89037	−27.72	18.5	215.046	116.1	1.94673	−31.60
3.5	278.608	181.8	1.89182	−27.76	20.5	14.426	275.4	1.94764	−31.73
5.5	77.988	341.1	1.89329	−27.80	22.5	173.806	74.7	1.94850	−31.87
7.5	237.368	140.5	1.89478	−27.85	24.5	333.186	234.1	1.94930	−32.00
9.5	36.748	299.8	1.89628	−27.90	26.5	132.566	33.4	1.95004	−32.13
11.5	196.128	99.1	1.89781	−27.95	28.5	291.946	192.7	1.95072	−32.26
13.5	355.508	258.4	1.89934	−28.01	30.5	91.326	352.1	1.95134	−32.38
15.5	154.888	57.7	1.90089	−28.07	32.5	250.706	151.4	1.95190	−32.50

M	Mimas ±(v−M)	Mimas log r/a	Enceladus ±(v−M)	Enceladus log r/a	Dione ±(v−M)	Dione log r/a	Rhea ±(v−M)	Rhea log r/a	M
0°	0°.000	9.99167	0°.000	9.99800	0°.000	9.99913	0°.000	9.99961	360°
2	0.078	9.99167	0.018	9.99800	0.008	9.99913	0.004	9.99961	358
4	0.156	9.99169	0.037	9.99800	0.016	9.99913	0.007	9.99961	356
6	0.233	9.99172	0.055	9.99801	0.024	9.99913	0.011	9.99961	354
8	0.310	9.99175	0.074	9.99802	0.032	9.99914	0.014	9.99961	352
10	0.387	9.99180	0.092	9.99803	0.040	9.99914	0.018	9.99961	350
12	0.463	9.99186	0.110	9.99804	0.048	9.99915	0.021	9.99962	348
14	0.539	9.99193	0.128	9.99806	0.056	9.99916	0.025	9.99962	346
16	0.614	9.99201	0.146	9.99808	0.063	9.99916	0.028	9.99962	344
18	0.688	9.99210	0.164	9.99810	0.071	9.99917	0.032	9.99963	342
20	0.762	9.99220	0.181	9.99812	0.079	9.99918	0.035	9.99963	340
22	0.834	9.99230	0.199	9.99814	0.086	9.99919	0.039	9.99964	338
24	0.905	9.99242	0.216	9.99817	0.093	9.99921	0.042	9.99964	336
26	0.975	9.99255	0.232	9.99820	0.101	9.99922	0.045	9.99965	334
28	1.044	9.99269	0.249	9.99823	0.108	9.99923	0.048	9.99966	332
30	1.111	9.99284	0.265	9.99827	0.115	9.99925	0.052	9.99966	330
32	1.177	9.99299	0.281	9.99830	0.122	9.99926	0.055	9.99967	328
34	1.242	9.99316	0.296	9.99834	0.128	9.99928	0.058	9.99968	326
36	1.305	9.99333	0.311	9.99838	0.135	9.99930	0.061	9.99968	324
38	1.366	9.99351	0.326	9.99842	0.141	9.99931	0.064	9.99969	322
40	1.425	9.99370	0.340	9.99847	0.148	9.99933	0.066	9.99970	320
42	1.483	9.99390	0.354	9.99852	0.154	9.99935	0.069	9.99971	318
44	1.538	9.99410	0.368	9.99856	0.159	9.99937	0.072	9.99972	316
46	1.592	9.99431	0.381	9.99861	0.165	9.99940	0.074	9.99973	314
48	1.644	9.99453	0.393	9.99866	0.171	9.99942	0.077	9.99974	312
50	1.693	9.99476	0.405	9.99872	0.176	9.99944	0.079	9.99975	310
52	1.741	9.99499	0.417	9.99877	0.181	9.99947	0.081	9.99976	308
54	1.786	9.99523	0.428	9.99883	0.186	9.99949	0.083	9.99977	306
56	1.829	9.99547	0.438	9.99889	0.190	9.99951	0.085	9.99978	304
58	1.870	9.99572	0.448	9.99895	0.195	9.99954	0.087	9.99979	302
60	1.908	9.99598	0.458	9.99901	0.199	9.99957	0.089	9.99980	300
62	1.944	9.99623	0.467	9.99907	0.203	9.99959	0.091	9.99982	298
64	1.977	9.99650	0.475	9.99913	0.206	9.99962	0.093	9.99983	296
66	2.008	9.99676	0.483	9.99919	0.210	9.99965	0.094	9.99984	294
68	2.036	9.99704	0.490	9.99926	0.213	9.99967	0.096	9.99985	292
70	2.062	9.99731	0.496	9.99932	0.216	9.99970	0.097	9.99987	290
72	2.086	9.99759	0.502	9.99939	0.218	9.99973	0.098	9.99988	288
74	2.106	9.99787	0.508	9.99946	0.220	9.99976	0.099	9.99989	286
76	2.124	9.99815	0.512	9.99952	0.222	9.99979	0.100	9.99991	284
78	2.140	9.99843	0.516	9.99959	0.224	9.99982	0.101	9.99992	282
80	2.153	9.99872	0.520	9.99966	0.226	9.99985	0.102	9.99993	280
82	2.163	9.99900	0.523	9.99973	0.227	9.99988	0.102	9.99995	278
84	2.170	9.99929	0.525	9.99980	0.228	9.99991	0.103	9.99996	276
86	2.175	9.99958	0.526	9.99987	0.229	9.99994	0.103	9.99997	274
88	2.177	9.99987	0.527	9.99994	0.229	9.99997	0.103	9.99999	272
90	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270

M	Mimas ± (v−M)	Mimas log r/a	Enceladus ± (v−M)	Enceladus log r/a	Dione ± (v−M)	Dione log r/a	Rhea ± (v−M)	Rhea log r/a	M
90°	2°.177	0.00016	0°.527	0.00001	0°.229	0.00000	0°.103	0.00000	270°
92	2.174	0.00044	0.527	0.00008	0.229	0.00003	0.103	0.00001	268
94	2.168	0.00073	0.526	0.00015	0.229	0.00006	0.103	0.00003	266
96	2.159	0.00101	0.524	0.00022	0.228	0.00009	0.103	0.00004	264
98	2.148	0.00130	0.522	0.00029	0.227	0.00012	0.102	0.00005	262
100	2.135	0.00158	0.519	0.00035	0.226	0.00015	0.102	0.00007	260
102	2.119	0.00186	0.515	0.00042	0.224	0.00018	0.101	0.00008	258
104	2.100	0.00214	0.511	0.00049	0.222	0.00021	0.100	0.00009	256
106	2.079	0.00241	0.506	0.00056	0.220	0.00024	0.099	0.00011	254
108	2.055	0.00268	0.500	0.00062	0.218	0.00027	0.098	0.00012	252
110	2.029	0.00295	0.494	0.00069	0.215	0.00030	0.097	0.00013	250
112	2.000	0.00321	0.488	0.00075	0.212	0.00033	0.096	0.00015	248
114	1.969	0.00347	0.480	0.00082	0.209	0.00035	0.094	0.00016	246
116	1.936	0.00373	0.473	0.00088	0.206	0.00038	0.093	0.00017	244
118	1.901	0.00398	0.464	0.00094	0.202	0.00041	0.091	0.00018	242
120	1.863	0.00422	0.455	0.00100	0.198	0.00044	0.089	0.00019	240
122	1.823	0.00446	0.446	0.00106	0.194	0.00046	0.087	0.00021	238
124	1.781	0.00469	0.436	0.00112	0.190	0.00049	0.085	0.00022	236
126	1.737	0.00492	0.425	0.00118	0.185	0.00051	0.083	0.00023	234
128	1.691	0.00514	0.414	0.00123	0.180	0.00053	0.081	0.00024	232
130	1.643	0.00536	0.402	0.00129	0.175	0.00056	0.079	0.00025	230
132	1.593	0.00557	0.390	0.00134	0.170	0.00058	0.077	0.00026	228
134	1.541	0.00577	0.378	0.00139	0.164	0.00060	0.074	0.00027	226
136	1.487	0.00597	0.365	0.00144	0.159	0.00062	0.072	0.00028	224
138	1.431	0.00616	0.351	0.00148	0.153	0.00065	0.069	0.00029	222
140	1.374	0.00634	0.337	0.00153	0.147	0.00067	0.066	0.00030	220
142	1.316	0.00651	0.323	0.00157	0.141	0.00068	0.064	0.00031	218
144	1.256	0.00668	0.308	0.00162	0.134	0.00070	0.061	0.00032	216
146	1.194	0.00683	0.293	0.00166	0.128	0.00072	0.058	0.00032	214
148	1.131	0.00698	0.278	0.00169	0.121	0.00074	0.055	0.00033	212
150	1.067	0.00713	0.262	0.00173	0.114	0.00075	0.052	0.00034	210
152	1.001	0.00726	0.246	0.00176	0.107	0.00077	0.048	0.00034	208
154	0.934	0.00738	0.230	0.00179	0.100	0.00078	0.045	0.00035	206
156	0.867	0.00750	0.213	0.00182	0.093	0.00079	0.042	0.00036	204
158	0.798	0.00760	0.196	0.00185	0.086	0.00080	0.039	0.00036	202
160	0.728	0.00770	0.179	0.00187	0.078	0.00081	0.035	0.00037	200
162	0.658	0.00779	0.162	0.00190	0.071	0.00082	0.032	0.00037	198
164	0.587	0.00787	0.144	0.00192	0.063	0.00083	0.028	0.00037	196
166	0.515	0.00794	0.127	0.00193	0.055	0.00084	0.025	0.00038	194
168	0.442	0.00800	0.109	0.00195	0.048	0.00085	0.021	0.00038	192
170	0.369	0.00805	0.091	0.00196	0.040	0.00085	0.018	0.00038	190
172	0.296	0.00810	0.073	0.00197	0.032	0.00086	0.014	0.00039	188
174	0.222	0.00813	0.055	0.00198	0.024	0.00086	0.011	0.00039	186
176	0.148	0.00815	0.037	0.00199	0.016	0.00086	0.007	0.00039	184
178	0.074	0.00817	0.018	0.00199	0.008	0.00087	0.004	0.00039	182
180	0.000	0.00817	0.000	0.00199	0.000	0.00087	0.000	0.00039	180

Bewegung der mittleren Länge *L* und der mittleren Anomalie *M*

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea	
	L	*M*	*L*	*M*	*L*	*L*	*M*	*L*	*M*
d 1	° 21.994	° 21.00	° 262.732	° 262.4	° 190.698	° 131.535	° 131.5	° 79.690	° 79.7
h 1	15.916	15.87	10.947	10.9	7.946	5.481	5.5	3.320	3.3
2	31.833	31.75	21.894	21.9	15.892	10.961	11.0	6.641	6.6
3	47.749	47.62	32.842	32.8	23.838	16.442	16.4	9.961	10.0
4	63.666	63.50	43.789	43.7	31.783	21.923	21.9	13.282	13.3
5	79.582	79.37	54.736	54.7	39.729	27.403	27.4	16.602	16.6
6	95.499	95.25	65.683	65.6	47.675	32.884	32.9	19.923	19.9
7	111.415	111.12	76.630	76.5	55.621	38.364	38.4	23.244	23.2
8	127.331	127.00	87.577	87.5	63.566	43.845	43.8	26.564	26.6
9	143.248	142.87	98.525	98.4	71.512	49.326	49.3	29.884	29.9
10	159.164	158.75	109.472	109.3	79.458	54.806	54.8	33.205	33.2
11	175.081	174.62	120.419	120.3	87.403	60.287	60.3	36.525	36.5
12	190.997	190.50	131.366	131.2	95.349	65.767	65.7	39.845	39.8
13	206.914	206.37	142.313	142.1	103.295	71.248	71.2	43.166	43.2
14	222.830	222.25	153.260	153.1	111.241	76.729	76.7	46.486	46.5
15	238.746	238.12	164.208	164.0	119.186	82.209	82.2	49.806	49.8
16	254.662	254.00	175.155	174.9	127.132	87.690	87.7	53.127	53.1
17	270.579	269.87	186.102	185.9	135.078	93.171	93.1	56.447	56.5
18	286.496	285.75	197.049	196.8	143.024	98.651	98.6	59.768	59.8
19	302.412	301.62	207.997	207.7	150.970	104.132	104.1	63.088	63.1
20	318.328	317.50	218.944	218.7	158.916	109.613	109.6	66.409	66.4
21	334.245	333.37	229.891	229.6	166.861	115.093	115.1	69.729	69.7
22	350.162	349.25	240.838	240.5	174.806	120.574	120.5	73.050	73.1
23	6.078	5.12	251.785	251.5	182.752	126.054	126.0	76.370	76.4
m 1	0.265	0.26	0.182	0.2	0.132	0.091	0.1	0.055	0.0
2	0.531	0.53	0.365	0.4	0.265	0.183	0.2	0.111	0.1
3	0.796	0.79	0.548	0.5	0.397	0.274	0.3	0.166	0.1
4	1.062	1.06	0.730	0.7	0.530	0.366	0.4	0.222	0.2
5	1.327	1.32	0.912	0.9	0.662	0.457	0.4	0.277	0.2
6	1.592	1.58	1.095	1.1	0.795	0.548	0.5	0.332	0.3
7	1.857	1.85	1.278	1.3	0.927	0.640	0.6	0.387	0.3
8	2.122	2.11	1.460	1.4	1.060	0.731	0.7	0.442	0.4
9	2.388	2.38	1.642	1.6	1.192	0.822	0.8	0.497	0.4
10	2.653	2.64	1.825	1.8	1.324	0.914	0.9	0.553	0.5
20	5.305	5.29	3.649	3.6	2.649	1.827	1.8	1.107	1.1
30	7.958	7.93	5.474	5.4	3.973	2.740	2.7	1.660	1.6
40	10.611	10.58	7.298	7.3	5.297	3.654	3.7	2.214	2.2
50	13.263	13.22	9.123	9.1	6.622	4.567	4.6	2.767	2.7
s 10	0.044	0.04	0.030	0.0	0.022	0.015	0.0	0.009	0.0
20	0.088	0.09	0.061	0.1	0.044	0.030	0.0	0.018	0.0
30	0.133	0.13	0.091	0.1	0.066	0.046	0.0	0.028	0.0
40	0.177	0.17	0.122	0.1	0.088	0.061	0.1	0.037	0.0
50	0.221	0.22	0.152	0.2	0.110	0.076	0.1	0.046	0.0

Mittlere Zeit Greenwich	ϑ					γ	N	J	ω
	Mimas	Encel.	Tethys	Dione	Rhea	Rhea	Saturnsring		
1915 Dez. 24.5	244.0°	80.4°	206.7°	41.5°	125.9°	19.63′	127.050°	6.858°	42.417
1916 Jan. 9.5	228.0	73.6	203.5	40.1	125.4	19.62	052	858	416
25.5	212.0	66.9	200.3	38.7	125.0	19.61	054	858	415
Febr. 10.5	196.0	60.2	197.1	37.4	124.5	19.59	056	858	414
26.5	180.0	53.5	193.9	36.0	124.1	19.58	057	857	413
März 13.5	164.0	46.8	190.8	34.7	123.6	19.56	127.059	6.857	42.412
29.5	148.0	40.2	187.6	33.3	123.2	19.55	061	857	410
April 14.5	132.0	33.5	184.4	32.0	122.7	19.53	062	857	409
30.5	116.0	26.8	181.2	30.6	122.3	19.52	064	857	408
Mai 16.5	100.0	20.1	178.0	29.2	121.8	19.51	066	857	407
Juni 1.5	84.0	13.4	174.8	27.9	121.4	19.49	127.068	6.856	42.406
17.5	68.0	6.7	171.7	26.5	120.9	19.48	070	856	404
Juli 3.5	52.0	0.0	168.5	25.2	120.4	19.46	072	856	403
19.5	36.0	353.3	165.3	23.8	120.0	19.45	074	856	402
Aug. 4.5	20.0	346.7	162.1	22.5	119.5	19.43	075	856	400
20.5	4.0	340.0	158.9	21.1	119.1	19.42	127.076	6.855	42.399
Sept. 5.5	347.9	333.3	155.7	19.7	118.6	19.40	078	855	398
21.5	331.9	326.6	152.6	18.4	118.2	19.39	080	855	397
Okt. 7.5	315.9	319.9	149.4	17.0	117.7	19.38	082	855	396
23.5	299.9	313.2	146.2	15.7	117.3	19.36	084	855	395
Nov. 8.5	283.9	306.5	143.0	14.3	116.8	19.34	127.086	6.855	42.393
24.5	267.9	299.8	139.8	13.0	116.4	19.33	088	854	392
Dez. 10.5	251.9	293.2	136.6	11.6	115.9	19.32	090	854	391
26.5	235.9	286.5	133.5	10.3	115.4	19.30	091	854	390
1917 Jan. 11.5	219.9	279.8	130.4	8.9	115.0	19.29	127.093	6.854	42.388

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale.

u − U		Mimas	Encel.	Tethys	Dione	Rhea	u − U	
0°	360°	−6+	−7+	−9+	−11+	−16+	180°	180°
10	350	−6+	−7+	−9+	−11+	−16+	170	190
20	340	−5+	−7+	−8+	−11+	−15+	160	200
30	330	−5+	−6+	−8+	−10+	−14+	150	210
40	320	−4+	−6+	−7+	− 9+	−12+	140	220
50	310	−3+	−5+	−6+	− 8+	−10+	130	230
60	300	−3+	−4+	−4+	− 6+	− 8+	120	240
70	290	−2+	−3+	−3+	− 4+	− 6+	110	250
80	280	−1+	−1+	−2+	− 2+	− 3+	100	260
90	270	0	0	0	0	0	90	270

Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	*B*	*P*	*U*	*B*	*P*	*U*	*B*	*P*
Jan. 1.5	341°.527	−24°.510	−6°.668	336°.713	−24°.876	−6°.148	55°.201	−10°.668	−8°.805
3.5	341.350	548	662	336.534	913	141	55.039	713	842
5.5	341.173	586	656	336.355	951	133	54.877	758	879
7.5	340.997	624	649	336.176	24.988	126	54.716	802	916
9.5	340.820	663	643	335.999	25.025	118	54.555	847	953
11.5	340.644	−24.701	−6.636	335.823	−25.062	−6.111	54.394	−10.891	−8.989
13.5	340.469	739	630	335.648	098	103	54.234	935	9.025
15.5	340.297	776	623	335.476	134	096	54.077	10.978	061
17.5	340.127	813	617	335.306	169	088	53.922	11.020	097
19.5	339.960	849	612	335.138	204	081	53.769	061	132
21.5	339.797	−24.884	−6.605	334.972	−25.237	−6.073	53.619	−11.102	−9.166
23.5	339.637	918	601	334.810	270	066	53.473	142	199
25.5	339.480	951	595	334.651	302	058	53.330	183	232
27.5	339.327	24.983	589	334.496	333	051	53.191	222	264
29.5	339.178	25.014	583	334.346	363	045	53.056	260	295
31.5	339.034	−25.044	−6.577	334.201	−25.392	−6.039	52.926	−11.296	−9.324
Febr. 2.5	338.895	074	572	334.062	420	033	52.800	331	352
4.5	338.761	102	567	333.929	447	027	52.679	365	379
6.5	338.633	130	561	333.802	473	021	52.563	397	405
8.5	338.512	156	556	333.680	498	016	52.453	428	429
10.5	338.397	−25.181	−6.552	333.563	−25.521	−6.010	52.348	−11.458	−9.452
12.5	338.289	204	548	333.454	544	005	52.250	486	474
14.5	338.187	226	544	333.352	566	6.000	52.159	513	495
16.5	338.093	248	540	333.257	586	5.995	52.074	538	514
18.5	338.005	269	536	333.170	605	991	51.994	562	533
20.5	337.925	−25.288	−6.533	333.089	−25.623	−5.988	51.921	−11.584	−9.550
22.5	337.851	305	530	333.015	640	985	51.855	605	565
24.5	337.786	320	527	332.948	656	982	51.796	624	578
26.5	337.728	335	525	332.888	671	979	51.744	642	589
28.5	337.678	348	523	332.837	685	977	51.700	659	599
März 1.5	337.636	−25.360	−6.521	332.794	−25.697	−5.975	51.662	−11.673	−9.608
3.5	337.602	370	520	332.759	708	973	51.631	686	615
5.5	337.576	379	519	332.733	718	973	51.607	696	621
7.5	337.558	387	518	332.716	726	973	51.591	705	625
9.5	337.549	393	517	332.707	733	972	51.583	711	627
11.5	337.547	−25.398	−6.517	332.706	−25.738	−5.972	51.582	−11.716	−9.628
13.5	337.554	402	518	332.712	741	972	51.589	719	626
15.5	337.569	404	519	332.726	742	973	51.604	720	623
17.5	337.593	405	520	332.748	742	974	51.626	719	618
19.5	337.624	404	522	332.778	741	976	51.654	716	612

Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	*B*	*P*	*U*	*B*	*P*	*U*	*B*	*P*
März 19.5	337.624	−25.404	−6.522	332.778	−25.741	−5.976	51.654	−11.716	−9.612
21.5	337.664	402	524	332.817	739	978	51.689	711	605
23.5	337.711	398	526	332.863	736	981	51.732	705	596
25.5	337.764	393	529	332.918	732	984	51.783	697	585
27.5	337.826	386	532	332.981	726	987	51.841	688	573
29.5	337.895	−25.379	−6.535	333.051	−25.719	−5.991	51.907	−11.677	−9.558
31.5	337.972	370	538	333.129	711	995	51.981	665	542
April 2.5	338.057	360	542	333.215	701	5.998	52.061	650	525
4.5	338.150	348	546	333.308	690	6.004	52.147	634	506
6.5	338.252	335	550	333.409	677	009	52.239	615	486
8.5	338.361	−25.320	−6.555	333.517	−25.663	−6.015	52.337	−11.595	−9.465
10.5	338.477	304	560	333.633	648	021	52.442	573	443
12.5	338.600	286	566	333.756	632	028	52.553	550	419
14.5	338.729	267	572	333.887	614	035	52.671	526	393
16.5	338.865	247	578	334.024	595	042	52.795	500	365
18.5	339.007	−25.225	−6.584	334.166	−25.575	−6.049	52.925	−11.473	−9.336
20.5	339.155	202	591	334.314	554	056	53.060	444	306
22.5	339.310	178	597	334.468	531	064	53.201	413	275
24.5	339.471	152	604	334.628	507	072	53.349	381	243
26.5	339.637	126	610	334.794	482	080	53.502	347	209
28.5	339.809	−25.098	−6.617	334.966	−25.456	−6.088	53.660	−11.312	−9.174
30.5	339.987	069	624	335.144	429	096	53.823	276	137
Mai 2.5	340.171	039	631	335.328	400	105	53.992	238	099
4.5	340.360	007	638	335.517	370	6.113	54.166	199	060
Sept. 17.5	357.013	−21.045	−6.937	352.238	−21.532	−6.570	69.681	− 7.136	−5.283
19.5	357.194	20.992	936	352.419	480	571	69.853	088	239
21.5	357.368	941	936	352.595	430	572	70.021	7.042	197
23.5	357.538	891	935	352.766	381	574	70.183	6.997	155
25.5	357.703	−20.842	−6.935	352.931	−21.334	−6.575	70.341	− 6.953	−5.114
27.5	357.863	796	935	353.091	288	576	70.492	911	074
29.5	358.016	751	934	353.246	244	577	70.639	870	036
Okt. 1.5	358.164	708	934	353.394	202	578	70.780	830	5.000
3.5	358.305	666	933	353.536	161	579	70.916	792	4.965
5.5	358.441	−20.626	−6.933	353.672	−21.122	−6.580	71.044	− 6.756	−4.932
7.5	358.570	587	932	353.802	084	580	71.168	722	901
9.5	358.694	550	932	353.925	048	581	71.285	689	871
11.5	358.811	515	931	354.042	21.014	582	71.396	659	842
13.5	358.922	482	930	354.152	20.982	6.582	71.501	630	815

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Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	*B*	*P*	*U*	*B*	*P*	*U*	*B*	*P*
Okt. 13.5	358°.922	−20°.482	−6°.930	354°.152	−20°.982	−6°.582	71°.501	−6°.630	−4°.815
15.5	359.026	452	930	354.256	953	583	71.600	604	789
17.5	359.122	424	929	354.353	925	584	71.692	580	764
19.5	359.211	398	929	354.443	899	585	71.778	558	742
21.5	359.294	374	928	354.525	876	585	71.858	538	721
23.5	359.370	−20.353	−6.928	354.600	−20.855	−6.585	71.932	−6.519	−4.703
25.5	359.439	334	928	354.668	836	585	71.997	502	686
27.5	359.501	318	927	354.729	820	585	72.056	487	671
29.5	359.555	304	927	354.783	806	585	72.108	474	658
31.5	359.601	294	927	354.831	795	586	72.153	464	647
Nov. 2.5	359.640	−20.285	−6.926	354.872	−20.786	−6.586	72.190	−6.455	−4.637
4.5	359.672	279	926	354.903	780	587	72.220	449	630
6.5	359.696	274	926	354.927	776	587	72.244	446	624
8.5	359.713	272	926	354.943	774	588	72.261	446	620
10.5	359.722	273	925	354.952	775	588	72.270	448	617
12.5	359.723	−20.277	−6.925	354.954	−20.778	−6.589	72.272	−6.452	−4.617
14.5	359.717	282	925	354.947	784	589	72.266	458	618
16.5	359.703	290	925	354.933	792	589	72.252	466	622
18.5	359.682	300	926	354.911	803	589	72.232	476	627
20.5	359.653	312	926	354.882	816	589	72.205	488	634
22.5	359.617	−20.328	−6.927	354.845	−20.832	−6.589	72.171	−6.502	−4.643
24.5	359.573	346	927	354.801	850	589	72.129	517	654
26.5	359.522	367	928	354.749	870	589	72.081	535	667
28.5	359.465	390	929	354.691	893	589	72.025	555	682
30.5	359.400	416	930	354.625	918	589	71.964	578	698
Dez. 2.5	359.328	−20.444	−6.931	354.551	−20.946	−6.589	71.895	−6.604	−4.716
4.5	359.249	473	932	354.471	20.976	590	71.820	632	736
6.5	359.163	504	932	354.385	21.008	590	71.738	661	757
8.5	359.071	538	933	354.292	042	590	71.650	692	780
10.5	358.972	574	934	354.193	078	590	71.556	724	804
12.5	358.867	−20.612	−6.935	354.087	−21.115	−6.590	71.457	−6.757	−4.830
14.5	358.756	652	936	353.976	153	589	71.352	793	857
16.5	358.639	694	937	353.859	194	589	71.242	830	886
18.5	358.518	738	938	353.736	236	589	71.127	870	916
20.5	358.391	783	939	353.608	280	589	71.006	911	948
22.5	358.259	−20.830	−6.940	353.475	−21.325	−6.588	70.880	−6.953	−4.981
24.5	358.123	878	941	353.338	372	588	70.750	6.996	5.014
26.5	357.982	927	941	353.195	420	588	70.615	7.041	048
28.5	357.837	20.977	942	353.048	470	587	70.476	086	084
30.5	357.687	21.028	943	352.897	521	587	70.334	132	121
32.5	357.532	080	944	352.742	574	586	70.190	178	158

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan. 1.5	+ 0.07s	+5.62s	−89.7″	+13.8′	−11.66s	+4.94s	− 92.7″	− 9.4″	−17.62s	−3.13s	+ 66.6″	−11.0″
2.5	+ 5.69	+4.82	−75.9	+24.8	− 6.72	+5.63	−102.1	+ 1.0	−20.75	−2.99	+ 55.6	−11.5
3.5	+10.51	+3.29	−51.1	+32.1	− 1.09	+5.74	−101.1	+11.9	−23.74	−2.84	+ 44.1	−11.7
4.5	+13.80	+1.26	−19.0	+34.9	+ 4.65	+5.21	− 89.2	+21.9	−26.58	−2.68	+ 32.4	−11.9
5.5	+15.06	−1.05	+15.9	+32.6	+ 9.86	+4.12	− 67.3	+29.5	−29.26	−2.46	+ 20.5	−12.1
6.5	+14.01	−3.25	+48.5	+24.9	+13.98	+2.55	− 37.8	+33.7	−31.72	−2.25	+ 8.4	−12.3
7.5	+10.76	−5.01	+73.4	+13.0	+16.53	+0.81	− 4.1	+34.2	−33.97	−1.99	− 3.9	−12.2
8.5	+ 5.75	−5.96	+86.4	− 1.3	+17.34	−0.92	+ 30.1	+31.5	−35.96	−1.72	− 16.1	−12.0
9.5	− 0.21	−5.93	+85.1	−15.7	+16.42	−2.46	+ 61.6	+25.7	−37.68	−1.47	− 28.1	−11.9
10.5	− 6.14	−4.89	+69.4	−27.3	+13.96	−3.66	+ 87.3	+18.2	−39.15	−1.19	− 40.0	−11.7
11.5	−11.03	−3.07	+42.1	−34.2	+10.30	−4.50	+105.5	+ 9.9	−40.34	−0.92	− 51.7	−11.4
12.5	−14.10	−0.80	+ 7.9	−35.6	+ 5.80	−4.92	+115.4	+ 1.2	−41.26	−0.61	− 63.1	−11.0
13.5	−14.90	+1.51	−27.7	−31.3	+ 0.88	−5.00	+116.6	− 7.2	−41.87	−0.29	− 74.1	−10.4
14.5	−13.39	+3.52	−59.0	−22.4	− 4.12	−4.70	+109.4	−14.7	−42.16	+0.02	− 84.5	− 9.9
15.5	− 9.87	+4.97	−81.4	−10.6	− 8.82	−4.10	+ 94.7	−21.2	−42.14	+0.31	− 94.4	− 9.3
16.5	− 4.90	+5.66	−92.0	+ 2.6	−12.92	−3.22	+ 73.5	−26.2	−41.83	+0.59	−103.7	− 8.5
17.5	+ 0.76	+5.55	−89.4	+15.2	−16.14	−2.09	+ 47.3	−28.9	−41.24	+0.88	−112.2	− 7.7
18.5	+ 6.31	+4.65	−74.2	+25.7	−18.23	−0.79	+ 18.4	−31.1	−40.36	+1.17	−119.9	− 6.9
19.5	+10.96	+3.06	−48.5	+33.0	−19.02	+0.65	− 12.7	−29.8	−39.19	+1.46	−126.8	− 6.1
20.5	+14.02	+0.98	−15.5	+35.1	−18.37	+2.12	− 42.5	−26.1	−37.73	+1.71	−132.9	− 5.2
21.5	+15.00	−1.32	+19.6	+32.0	−16.25	+3.50	− 68.6	−20.4	−36.02	+1.94	−138.1	− 4.1
22.5	+13.68	−3.47	+51.6	+23.9	−12.75	+4.66	− 89.0	−12.0	−34.08	+2.16	−142.2	− 3.1
23.5	+10.21	−5.12	+75.5	+11.7	− 8.09	+5.49	−101.0	− 1.9	−31.92	+2.39	−145.3	− 2.2
24.5	+ 5.09	−5.97	+87.2	− 2.9	− 2.60	+5.71	−102.9	+ 8.9	−29.53	+2.60	−147.5	− 1.2
25.5	− 0.88	−5.80	+84.3	−17.0	+ 3.11	+5.37	− 94.0	+19.3	−26.93	+2.77	−148.7	− 0.2
26.5	− 6.68	−4.68	+67.3	−28.3	+ 8.48	+4.41	− 74.7	+27.7	−24.16	+2.92	−148.9	+ 0.9
27.5	−11.36	−2.80	+39.0	−34.6	+12.89	+2.96	− 47.0	+33.0	−21.24	+3.06	−148.0	+ 1.8
28.5	−14.16	−0.54	+ 4.4	−35.4	+15.85	+1.26	− 14.0	+34.5	−18.18	+3.17	−146.2	+ 2.8
29.5	−14.70	+1.75	−31.0	−30.5	+17.11	−0.48	+ 20.5	+32.4	−15.01	+3.26	−143.4	+ 3.8
30.5	−12.95	+3.68	−61.5	−21.3	+16.63	−2.06	+ 52.9	+27.5	−11.75	+3.34	−139.6	+ 4.7
31.5	− 9.27	+5.04	−82.8	− 9.2	+14.57	−3.34	+ 80.4	+20.4	− 8.41	+3.39	−134.9	+ 5.5
Febr. 1.5	− 4.23	+5.61	−92.0	+ 4.0	+11.23	−4.24	+100.8	+12.2	− 5.02	+3.41	−129.4	+ 6.3
2.5	+ 1.38	+5.42	−88.0	+16.3	+ 6.99	−4.77	+113.0	+ 3.6	− 1.61	+3.40	−123.1	+ 7.2
3.5	+ 6.80	+4.44	−71.7	+26.7	+ 2.22	−4.94	+116.6	− 4.8	+ 1.79	+3.39	−115.9	+ 8.0
4.5	+11.24	+2.80	−45.0	+32.9	− 2.72	−4.73	+111.8	−12.5	+ 5.18	+3.35	−107.9	+ 8.6
5.5	+14.04	+0.72	−12.1	+34.7	− 7.45	−4.21	+ 99.3	−19.3	+ 8.53	+3.29	− 99.3	+ 9.2
6.5	+14.76	−1.54	+22.6	+31.3	−11.66	−3.42	+ 80.0	−24.6	+11.82	+3.20	− 90.1	+ 9.8
7.5	+13.22	−3.61	+53.9	+22.7	−15.08	−2.37	+ 55.4	−28.4	+15.02	+3.09	− 80.3	+10.2
8.5	+ 9.61	−5.17	+76.6	+10.2	−17.45	−1.14	+ 27.0	−30.2	+18.11	+2.99	− 70.1	+10.7
9.5	+ 4.44		+86.8		−18.59		− 3.2		+21.10		− 59.4	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Febr. 9.5	+ 4.44ˢ	−5.89ˢ	+86.8″	− 4.3″	−18.59ˢ	+0.24ˢ	− 3.2″	−29.8″	+21.10ˢ	+2.85ˢ	− 59.4″	+11.1″
10.5	− 1.45	−5.64	+82.5	−18.0	−18.35	+1.67	− 33.0	−27.3	+23.95	+2.69	− 48.3	+11.3
11.5	− 7.09	−4.43	+64.5	−28.8	−16.68	+3.05	− 60.3	−22.0	+26.64	+2.53	− 37.0	+11.6
12.5	−11.52	−2.55	+35.7	−34.6	−13.63	+4.26	− 82.3	−14.6	+29.17	+2.35	− 25.4	+11.8
13.5	−14.07	−0.28	+ 1.1	−34.7	− 9.37	+5.17	− 96.9	− 5.1	+31.52	+2.16	− 13.6	+12.0
14.5	−14.35	+1.92	−33.6	−29.4	− 4.20	+5.57	−102.0	+ 5.5	+33.68	+1.94	− 1.6	+12.0
15.5	−12.43	+3.78	−63.0	−20.1	+ 1.37	+5.40	− 96.5	+16.0	+35.62	+1.73	+ 10.4	+11.9
16.5	− 8.65	+5.01	−83.1	− 7.8	+ 6.77	+4.63	− 80.5	+25.0	+37.35	+1.50	+ 22.3	+11.6
17.5	− 3.64	+5.53	−90.9	+ 5.1	+11.40	+3.35	− 55.5	+31.1	+38.85	+1.27	+ 33.9	+11.3
18.5	+ 1.89	+5.24	−85.8	+17.1	+14.75	+1.73	− 24.4	+33.7	+40.12	+1.03	+ 45.2	+10.9
19.5	+ 7.13	+4.21	−68.7	+26.8	+16.48	+0.04	+ 9.3	+32.7	+41.15	+0.79	+ 56.1	+10.5
20.5	+11.34	+2.57	−41.9	+32.9	+16.52	−1.54	+ 42.0	+28.8	+41.94	+0.53	+ 66.6	+10.3
21.5	+13.91	+0.53	− 9.0	+34.0	+14.98	−2.90	+ 70.8	+22.3	+42.47	+0.27	+ 76.9	+ 9.9
22.5	+14.44	−1.73	+25.0	+30.3	+12.08	−3.89	+ 93.1	+14.5	+42.74	+0.02	+ 86.8	+ 9.4
23.5	+12.71	−3.69	+55.3	+21.2	+ 8.19	−4.50	+107.6	+ 6.6	+42.76	−0.21	+ 96.2	+ 8.8
24.5	+ 9.02	−5.15	+76.5	+ 8.9	+ 3.69	−4.77	+114.2	− 2.3	+42.55	−0.46	+105.0	+ 8.1
25.5	+ 3.87	−5.77	+85.4	− 5.3	− 1.08	−4.68	+111.9	− 9.9	+42.09	−0.71	+113.1	+ 7.5
26.5	− 1.90	−5.44	+80.1	−18.7	− 5.76	−4.27	+102.0	−16.7	+41.38	−0.95	+120.6	+ 6.7
27.5	− 7.34	−4.18	+61.4	−28.8	−10.03	−3.58	+ 85.3	−22.5	+40.43	−1.19	+127.3	+ 6.0
28.5	−11.52	−2.30	+32.6	−34.1	−13.61	−2.64	+ 62.8	−26.5	+39.24	−1.42	+133.3	+ 5.2
29.5	−13.82	−0.10	− 1.5	−33.7	−16.25	−1.51	+ 36.3	−29.1	+37.82	−1.64	+138.5	+ 4.3
März 1.5	−13.92	+2.03	−35.2	−28.2	−17.76	−0.23	+ 7.2	−29.3	+36.18	−1.85	+142.8	+ 3.5
2.5	−11.89	+3.80	−63.4	−18.7	−17.99	+1.14	− 22.1	−27.5	+34.33	−2.04	+146.3	+ 2.6
3.5	− 8.09	+4.94	−82.1	− 6.8	−16.85	+2.51	− 49.6	−23.5	+32.29	−2.24	+148.9	+ 1.7
4.5	− 3.15	+5.39	−88.9	+ 5.8	−14.34	+3.76	− 73.1	−16.9	+30.05	−2.42	+150.6	+ 0.7
5.5	+ 2.24	+5.05	−83.1	+17.5	−10.58	+4.73	− 90.0	− 8.3	+27.63	−2.55	+151.3	− 0.2
6.5	+ 7.29	+4.00	−65.6	+26.7	− 5.85	+5.30	− 98.3	+ 1.6	+25.08	−2.69	+151.1	− 1.1
7.5	+11.29	+2.33	−38.9	+32.4	− 0.55	+5.34	− 96.7	+12.0	+22.39	−2.83	+150.0	− 2.0
8.5	+13.62	+0.37	− 6.5	+33.0	+ 4.79	+4.78	− 84.7	+21.4	+19.56	−2.95	+148.0	− 2.9
9.5	+13.99	−1.80	+26.5	+28.9	+ 9.57	+3.74	− 63.3	+28.3	+16.61	−3.03	+145.1	− 3.8
10.5	+12.19	−3.70	+55.4	+20.1	+13.31	+2.21	− 35.0	+32.2	+13.58	−3.11	+141.3	− 4.7
11.5	+ 8.49	−5.07	+75.5	+ 7.8	+15.52	+0.62	− 2.8	+32.2	+10.47	−3.16	+136.6	− 5.5
12.5	+ 3.42	−5.61	+83.3	− 6.0	+16.14	−0.96	+ 29.4	+29.4	+ 7.31	−3.19	+131.1	− 6.3
13.5	− 2.19	−5.24	+77.3	−18.9	+15.18	−2.34	+ 58.8	+24.0	+ 4.12	−3.21	+124.8	− 7.1
14.5	− 7.43	−3.97	+58.4	−28.5	+12.84	−3.41	+ 82.8	+17.1	+ 0.91	−3.20	+117.7	− 7.8
15.5	−11.40	−2.11	+29.9	−33.3	+ 9.43	−4.15	+ 99.9	+ 8.9	− 2.29	−3.17	+109.9	− 8.5
16.5	−13.51	+0.04	− 3.4	−32.6	+ 5.28	−4.52	+108.8	+ 1.0	− 5.46	−3.12	+101.4	− 9.1
17.5	−13.47	+2.08	−36.0	−27.0	+ 0.76	−4.56	+109.8	− 6.6	− 8.58	−3.05	+ 92.3	− 9.6
18.5	−11.39	+3.77	−63.0	−17.5	− 3.80	−4.28	+103.2	−13.7	−11.63	−2.96	+ 82.7	−10.2
19.5	− 7.62		−80.5		− 8.08		+ 89.5		−14.59		+ 72.5	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
	s	s	"	"	s	s	"	"	s	s	"	"
März 19.5	− 7.62	+4.84	−80.5	− 6.0	− 8.08	−3.73	+ 89.5	−19.6	−14.59	−2.86	+ 72.5	−10.6
20.5	− 2.78	+5.22	−86.5	+ 6.3	−11.81	−2.92	+ 69.9	−24.2	−17.45	−2.73	+ 61.9	−11.0
21.5	+ 2.44	+4.86	−80.2	+17.5	−14.73	−1.90	+ 45.7	−27.2	−20.18	−2.58	+ 50.9	−11.2
22.5	+ 7.30	+3.81	−62.7	+26.4	−16.63	−0.72	+ 18.5	−28.4	−22.76	−2.43	+ 49.7	−11.4
23.5	+11.11	+2.20	−36.3	+31.5	−17.35	+0.58	− 9.9	−27.5	−25.19	−2.25	+ 28.3	−11.6
24.5	+13.31	+0.24	− 4.8	+32.0	−16.77	+1.90	− 37.4	−24.4	−27.44	−2.05	+ 16.7	−11.6
25.5	+13.55	−1.83	+27.2	+27.7	−14.87	+3.15	− 61.8	−19.0	−29.49	−1.84	+ 5.1	−11.5
26.5	+11.72	−3.67	+54.9	+19.0	−11.72	+4.21	− 80.8	−11.5	−31.33	−1.63	− 6.4	−11.4
27.5	+ 8.05	−4.96	+73.9	+ 7.0	− 7.51	+4.94	− 92.3	− 2.3	−32.96	−1.40	− 17.8	−11.4
28.5	+ 3.09	−5.44	+80.9	− 6.4	− 2.57	+5.18	− 94.6	+ 7.6	−34.36	−1.16	− 29.2	−11.1
29.5	− 2.35	−5.03	+74.5	−18.8	+ 2.61	+4.87	− 87.0	+17.1	−35.52	−0.91	− 40.3	−10.7
30.5	− 7.38	−3.79	+55.7	−28.0	+ 7.48	+4.02	− 69.9	+24.9	−36.43	−0.67	− 51.0	−10.2
31.5	−11.17	−1.98	+27.7	−32.2	+11.50	+2.76	− 45.0	+29.7	−37.10	−0.41	− 61.2	− 9.8
April 1.5	−13.15	+0.10	− 4.5	−31.4	+14.26	+1.23	− 15.3	+31.2	−37.51	−0.17	− 71.0	− 9.3
2.5	−13.05	+2.08	−35.9	−25.9	+15.49	−0.31	+ 15.9	+29.6	−37.68	+0.09	− 80.3	− 8.7
3.5	−10.97	+3.70	−61.8	−16.7	+15.18	−1.70	+ 45.5	+25.2	−37.59	+0.33	− 89.0	− 8.1
4.5	− 7.27	+4.72	−78.5	− 5.3	+13.48	−2.86	+ 70.7	+19.2	−37.26	+0.59	− 97.1	− 7.4
5.5	− 2.55	+5.05	−83.8	+ 6.5	+10.62	−3.70	+ 89.9	+11.9	−36.67	+0.83	−104.5	− 6.6
6.5	+ 2.50	+4.70	−77.3	+17.3	+ 6.92	−4.21	+101.8	+ 4.2	−35.84	+1.08	−111.1	− 5.8
7.5	+ 7.20	+3.66	−60.0	+25.7	+ 2.71	−4.39	+106.0	− 3.2	−34.76	+1.28	−116.9	− 4.9
8.5	+10.86	+2.09	−34.3	+30.5	− 1.68	−4.25	+102.8	−10.3	−33.48	+1.49	−121.8	− 4.2
9.5	+12.95	+0.19	− 3.8	+30.7	− 5.93	−3.84	+ 92.5	−16.5	−31.99	+1.70	−126.0	− 3.4
10.5	+13.14	−1.83	+26.9	+26.9	− 9.77	−3.17	+ 76.0	−21.3	−30.29	+1.88	−129.4	− 2.5
11.5	+11.31	−3.59	+53.8	+18.1	−12.94	−2.30	+ 54.7	−25.0	−28.41	+2.06	−131.9	− 1.7
12.5	+ 7.72	−4.82	+71.9	+ 6.4	−15.24	−1.22	+ 29.7	−27.0	−26.35	+2.23	−133.6	− 0.7
13.5	+ 2.90	−5.28	+78.3	− 6.5	−16.46	−0.01	+ 2.7	−27.0	−24.12	+2.36	−134.3	+ 0.2
14.5	− 2.38	−4.87	+71.8	−18.5	−16.47	+1.25	− 24.3	−24.9	−21.76	+2.50	−134.1	+ 1.0
15.5	− 7.25	−3.66	+53.3	−27.1	−15.22	+2.51	− 49.2	−20.8	−19.26	+2.60	−133.1	+ 1.7
16.5	−10.91	−1.89	+26.2	−31.3	−12.71	+3.64	− 70.0	−14.4	−16.66	+2.69	−131.4	+ 2.6
17.5	−12.80	+0.13	− 5.1	−30.2	− 9.07	+4.48	− 84.4	− 6.2	−13.97	+2.77	−128.8	+ 3.4
18.5	−12.67	+2.08	−35.3	−24.9	− 4.59	+4.94	− 90.6	+ 3.2	−11.20	+2.83	−125.4	+ 4.1
19.5	−10.59	+3.57	−60.2	−16.0	+ 0.35	+4.89	− 87.4	+12.6	− 8.37	+2.87	−121.3	+ 4.8
20.5	− 7.02	+4.56	−76.2	− 4.9	+ 5.24	+4.28	− 74.8	+20.8	− 5.50	+2.90	−116.5	+ 5.5
21.5	− 2.46	+4.92	−81.1	+ 6.4	+ 9.52	+3.22	− 54.0	+26.6	− 2.60	+2.89	−111.0	+ 6.1
22.5	+ 2.46	+4.55	−74.7	+17.0	+12.74	+1.87	− 27.4	+29.6	+ 0.29	+2.88	−104.9	+ 6.7
23.5	+ 7.01	+3.55	−57.7	+24.9	+14.61	+0.38	+ 2.2	+29.2	+ 3.17	+2.85	− 98.2	+ 7.2
24.5	+10.56	+2.03	−32.8	+29.5	+14.99	−1.03	+ 31.4	+26.2	+ 6.02	+2.79	− 91.0	+ 7.7
25.5	+12.59	+0.17	− 3.3	+29.8	+13.96	−2.26	+ 57.6	+21.1	+ 8.81	+2.74	− 83.3	+ 8.1
26.5	+12.76	−1.77	+26.5	+25.8	+11.70	−3.18	+ 78.7	+14.4	+11.55	+2.68	− 75.2	+ 8.6
27.5	+10.99		+52.3		+ 8.52		+ 93.1		+14.23		− 66.6	

Mittlere Zeit Greenwich	TITAN $\alpha_{tr} - \alpha_{pl}$		TITAN $\delta_{tr} - \delta_{pl}$		HYPERION $\alpha_{tr} - \alpha_{pl}$		HYPERION $\delta_{tr} - \delta_{pl}$		JAPETUS $\alpha_{tr} - \alpha_{pl}$		JAPETUS $\delta_{tr} - \delta_{pl}$	
April 27.5	+10.99 s	−3.49 s	+52.3″	+17.4″	+ 8.52 s	−3.84 s	+ 93.1″	+ 7.6″	+14.23 s	+2.60 s	−66.6″	+8.9″
28.5	+ 7.50	−4.69	+69.7	+ 6.1	+ 4.68	−4.16	+100.7	+ 0.3	+16.83	+2.48	−57.7	+9.2
29.5	+ 2.81	−5.12	+75.8	− 6.5	+ 0.52	−4.18	+101.0	− 6.8	+19.31	+2.36	−48.5	+9.3
30.5	− 2.31	−4.76	+69.3	−17.9	− 3.66	−3.92	+ 94.2	−13.0	+21.67	+2.23	−39.2	+9.5
Mai 1.5	− 7.07	−3.55	+51.4	−26.2	− 7.58	−3.40	+ 81.2	−18.3	+23.90	+2.09	−29.7	+9.5
2.5	−10.62	−1.85	+25.2	−30.3	−10.98	−2.67	+ 62.9	−22.5	+25.99	+1.93	−20.2	+9.5
3.5	−12.47		− 5.1		−13.65		+ 40.4		+27.92		−10.7	
Sept. 17.5	+12.40	−1.16	+19.3	+22.8	+ 4.61	+4.25	− 62.1	+17.2	−32.70	+1.16	−67.2	−2.9
18.5	+11.24	−2.97	+42.1	+16.1	+ 8.86	+3.33	− 44.9	+21.9	−31.54	+1.37	−70.1	−2.4
19.5	+ 8.27	−4.30	+58.2	+ 6.3	+12.19	+2.14	− 23.0	+24.2	−30.17	+1.56	−72.5	−2.0
20.5	+ 3.97	−4.99	+64.5	− 4.2	+14.33	+0.83	+ 1.2	+24.2	−28.61	+1.74	−74.5	−1.5
21.5	− 1.02	−4.84	+60.3	−14.2	+15.16	−0.52	+ 25.4	+22.1	−26.87	+1.92	−76.0	−1.0
22.5	− 5.86	−3.89	+46.1	−21.8	+14.64	−1.68	+ 47.5	+18.2	−24.95	+2.07	−77.0	−0.6
23.5	− 9.75	−2.36	+24.3	−25.7	+12.96	−2.67	+ 65.7	+13.3	−22.88	+2.22	−77.6	−0.1
24.5	−12.11	−0.49	− 1.4	−25.4	+10.29	−3.49	+ 79.0	+ 7.6	−20.66	+2.35	−77.7	+0.4
25.5	−12.60	+1.36	−26.8	−21.5	+ 6.80	−3.86	+ 86.6	+ 1.5	−18.31	+2.46	−77.3	+0.9
26.5	−11.24	+3.03	−48.3	−14.6	+ 2.94	−4.14	+ 88.1	− 4.6	−15.85	+2.57	−76.4	+1.2
27.5	− 8.21	+4.18	−62.9	− 5.6	− 1.20	−4.07	+ 83.5	−10.3	−13.28	+2.66	−75.2	+1.7
28.5	− 4.03	+4.77	−68.5	+ 3.9	− 5.27	−3.71	+ 73.2	−15.4	−10.62	+2.73	−73.5	+2.1
29.5	+ 0.74	+4.67	−64.6	+13.1	− 8.98	−3.08	+ 57.8	−19.6	− 7.89	+2.78	−71.4	+2.6
30.5	+ 5.41	+3.91	−51.5	+20.4	−12.06	−2.17	+ 38.2	−22.5	− 5.11	+2.83	−68.8	+2.9
Okt. 1.5	+ 9.32	+2.57	−31.1	+25.0	−14.23	−1.05	+ 15.7	−23.8	− 2.28	+2.84	−65.9	+3.3
2.5	+11.89	+0.80	− 6.1	+25.9	−15.28	+0.25	− 8.1	−23.1	+ 0.56	+2.85	−62.6	+3.6
3.5	+12.69	−1.18	+19.8	+22.9	−15.03	+1.63	− 31.2	−20.2	+ 3.41	+2.85	−59.0	+4.0
4.5	+11.51	−3.03	+42.7	+16.1	−13.40	+2.95	− 51.4	−15.2	+ 6.26	+2.83	−55.0	+4.3
5.5	+ 8.48	−4.43	+58.8	+ 6.4	−10.45	+4.03	− 66.6	− 8.3	+ 9.09	+2.78	−50.7	+4.5
6.5	+ 4.05	−5.11	+65.2	− 4.4	− 6.42	+4.74	− 74.9	− 0.2	+11.87	+2.71	−46.2	+4.8
7.5	− 1.06	−4.96	+60.8	−14.4	− 1.68	+4.94	− 75.1	+ 8.1	+14.58	+2.64	−41.4	+5.0
8.5	− 6.02	−3.99	+46.4	−22.1	+ 3.26	+4.60	− 67.0	+15.5	+17.22	+2.55	−36.4	+5.1
9.5	−10.01	−2.42	+24.3	−26.1	+ 7.86	+3.79	− 51.5	+21.0	+19.77	+2.47	−31.3	+5.4
10.5	−12.43	−0.50	− 1.8	−25.8	+11.65	+2.64	− 30.5	+24.3	+22.24	+2.35	−25.9	+5.6
11.5	−12.93	+1.42	−27.6	−21.7	+14.29	+1.29	− 6.2	+24.7	+24.59	+2.21	−20.3	+5.7
12.5	−11.51	+3.10	−49.3	−14.7	+15.58	−0.07	+ 18.5	+23.3	+26.80	+2.07	−14.6	+5.7
13.5	− 8.41	+4.29	−64.0	− 5.5	+15.51	−1.34	+ 41.8	+19.9	+28.87	+1.92	− 8.9	+5.8
14.5	− 4.12	+4.90	−69.5	+ 4.1	+14.17	−2.45	+ 61.7	+15.2	+30.79	+1.75	− 3.1	+5.7
15.5	+ 0.78	+4.80	−65.4	+13.4	+11.72	−3.32	+ 76.9	+ 9.7	+32.54	+1.57	+ 2.6	+5.7
16.5	+ 5.58	+4.02	−52.0	+20.9	+ 8.40	−3.93	+ 86.6	+ 3.5	+34.11	+1.40	+ 8.3	+5.7
17.5	+ 9.60		−31.1		+ 4.47		+ 90.1		+35.51		+14.0	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Okt. 17.5	+ 9.60 s	+2.64 s	−31.1″	+25.5″	+ 4.47 s	−4.26 s	+90.1″	− 2.8″	+35.51 s	+1.20 s	+14.0″	+5.6″
18.5	+12.24	+0.78	− 5.6	+26.4	+ 0.21	−4.31	+87.3	− 8.5	+36.71	+1.00	+19.6	+5.5
19.5	+13.02	−1.22	+20.8	+23.2	− 4.10	−3.99	+78.8	−14.7	+37.71	+0.78	+25.1	+5.4
20.5	+11.80	−3.15	+44.0	+16.1	− 8.09	−3.45	+64.1	−19.0	+38.49	+0.57	+30.5	+5.3
21.5	+ 8.65	−4.57	+60.1	+ 6.3	−11.54	−2.59	+45.1	−22.5	+39.06	+0.35	+35.8	+5.0
22.5	+ 4.08	−5.27	+66.4	− 4.7	−14.13	−1.47	+22.6	−24.3	+39.41	+0.12	+40.8	+4.8
23.5	− 1.19	−5.09	+61.7	−15.1	−15.60	−0.14	− 1.7	−24.1	+39.53	−0.10	+45.6	+4.6
24.5	− 6.28	−4.09	+46.6	−22.6	−15.74	+1.29	−25.8	−21.9	+39.43	−0.32	+50.2	+4.3
25.5	−10.37	−2.44	+24.0	−26.7	−14.45	+2.70	−47.7	−17.2	+39.11	−0.55	+54.5	+4.0
26.5	−12.81	−0.49	− 2.7	−26.2	−11.75	+3.93	−64.9	−10.6	+38.56	−0.79	+58.5	+3.6
27.5	−13.30	+1.51	−28.9	−22.0	− 7.82	+4.78	−75.5	− 2.4	+37.77	−1.01	+62.1	+3.3
28.5	−11.79	+3.22	−50.9	−14.8	− 3.04	+5.14	−77.9	+ 6.2	+36.76	−1.24	+65.4	+3.0
29.5	− 8.57	+4.46	−65.7	− 5.4	+ 2.10	+4.92	−71.7	+14.2	+35.52	−1.45	+68.4	+2.5
30.5	− 4.11	+5.05	−71.1	+ 4.6	+ 7.02	+4.20	−57.5	+20.4	+34.07	−1.66	+70.9	+2.1
31.5	+ 0.94	+4.93	−66.5	+14.0	+11.22	+3.07	−37.1	+24.2	+32.41	−1.86	+73.0	+1.8
Nov. 1.5	+ 5.87	+4.12	−52.5	+21.5	+14.29	+1.72	−12.9	+25.6	+30.55	−2.06	+74.8	+1.3
2.5	+ 9.99	+2.65	−31.0	+26.3	+16.01	+0.30	+12.7	+24.6	+28.49	−2.24	+76.1	+0.8
3.5	+12.64	+0.76	− 4.7	+27.0	+16.31	−1.06	+37.3	+21.6	+26.25	−2.42	+76.9	+0.4
4.5	+13.40	−1.34	+22.3	+23.6	+15.25	−2.27	+58.9	+17.0	+23.83	−2.58	+77.3	−0.2
5.5	+12.06	−3.30	+45.9	+16.2	+12.98	−3.25	+75.9	+11.6	+21.25	−2.72	+77.1	−0.6
6.5	+ 8.76	−4.76	+62.1	+ 6.1	+ 9.73	−3.96	+87.5	+ 5.2	+18.53	−2.85	+76.5	−1.1
7.5	+ 4.00	−5.45	+68.2	− 5.3	+ 5.77	−4.39	+92.7	− 1.3	+15.68	−2.96	+75.4	−1.5
8.5	− 1.45	−5.23	+62.9	−15.9	+ 1.38	−4.49	+91.4	− 7.6	+12.72	−3.06	+73.9	−2.0
9.5	− 6.68	−4.17	+47.0	−23.5	− 3.11	−4.33	+83.8	−13.6	+ 9.66	−3.13	+71.9	−2.5
10.5	−10.85	−2.42	+23.5	−27.5	− 7.44	−3.74	+70.2	−18.7	+ 6.53	−3.19	+69.4	−3.0
11.5	−13.27	−0.40	− 4.0	−27.0	−11.18	−2.93	+51.5	−22.6	+ 3.34	−3.22	+66.4	−3.3
12.5	−13.67	+1.65	−31.0	−22.3	−14.11	−1.82	+28.9	−25.1	+ 0.12	−3.23	+63.1	−3.9
13.5	−12.02	+3.39	−53.3	−14.8	−15.93	−0.48	+ 3.8	−25.4	− 3.11	−3.23	+59.2	−4.2
14.5	− 8.63	+4.64	−68.1	− 5.1	−16.41	+1.03	−21.6	−23.4	− 6.34	−3.20	+55.0	−4.6
15.5	− 3.99	+5.22	−73.2	+ 5.2	−15.38	+2.51	−45.0	−19.2	− 9.54	−3.15	+50.4	−4.9
16.5	+ 1.23	+5.06	−68.0	+14.9	−12.87	+3.86	−64.2	−12.6	−12.69	−3.07	+45.5	−5.3
17.5	+ 6.29	+4.17	−53.1	+22.6	− 9.01	+4.84	−76.8	− 4.3	−15.76	−2.97	+40.2	−5.6
18.5	+10.46	+2.65	−30.5	+27.1	− 4.17	+5.32	−81.1	+ 4.7	−18.73	−2.86	+34.6	−5.9
19.5	+13.11	+0.66	− 3.4	+27.8	+ 1.15	+5.21	−76.4	+13.2	−21.59	−2.73	+28.7	−6.0
20.5	+13.77	−1.52	+24.4	+24.1	+ 6.36	+4.55	−63.2	+20.0	−24.32	−2.56	+22.7	−6.2
21.5	+12.25	−3.50	+48.5	+16.2	+10.91	+3.44	−43.2	+24.6	−26.88	−2.38	+16.5	−6.4
22.5	+ 8.75	−4.97	+64.7	+ 5.6	+14.35	+2.07	−18.6	+26.6	−29.26	−2.19	+10.1	−6.6
23.5	+ 3.78	−5.61	+70.3	− 6.1	+16.42	+0.59	+ 8.0	+26.0	−31.45	−1.98	+ 3.5	−6.6
24.5	− 1.83	−5.34	+64.2	−16.9	+17.01	−0.84	+34.0	+23.2	−33.43	−1.75	− 3.1	6.6
25.5	− 7.17		+47.3		+16.17		+57.2		−35.18		− 9.7	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
	s	s	″	″	s	s	″	′	s	s	″	″
Nov. 25.5	− 7.17	−4.17	+47.3	−24.7	+16.17	−2.15	+ 57.2	+18.9	−35.18	−1.52	− 9.7	−6.6
26.5	−11.34	−2.38	+22.6	−28.7	+14.02	−3.20	+ 76.1	+13.2	−36.70	−1.27	−16.3	−6.5
27.5	−13.72	−0.28	− 6.1	−27.4	+10.82	−4.00	+ 89.3	+ 6.8	−37.97	−1.01	−22.8	−6.3
28.5	−14.00	+1.83	−33.5	−22.9	+ 6.82	−4.52	+ 96.1	− 0.1	−38.98	−0.74	−29.1	−6.2
29.5	−12.17	+3.61	−56.4	−14.6	+ 2.30	−4.69	+ 96.0	− 6.7	−39.72	−0.46	−35.3	−6.1
30.5	− 8.56	+4.83	−71.0	− 4.6	− 2.39	−4.55	+ 89.3	−11.1	−40.18	−0.19	−41.4	−5.9
Dez. 1.5	− 3.73	+5.39	−75.6	+ 6.1	− 6.94	−4.02	+ 78.2	−20.7	−40.37	+0.09	−47.3	−5.6
2.5	+ 1.66	+5.16	−69.5	+16.0	−10.96	−3.22	+ 57.5	−23.1	−40.28	+0.38	−52.9	−5.2
3.5	+ 6.82	+4.19	−53.5	+23.8	−14.18	−2.09	+ 34.4	−26.0	−39.90	+0.64	−58.1	−4.7
4.5	+11.01	+2.58	−29.7	+28.2	−16.27	−0.72	+ 8.4	−26.6	−39.26	+0.90	−62.8	−4.4
5.5	+13.59	+0.50	− 1.5	+28.6	−16.99	+0.82	− 18.2	−25.2	−38.36	+1.16	−67.2	−4.0
6.5	+14.09	−1.72	+27.1	+24.5	−16.17	+2.39	− 43.4	−20.9	−37.20	+1.43	−71.2	−3.6
7.5	+12.37	−3.74	+51.6	+16.1	−13.78	+3.83	− 64.3	−14.4	−35.77	+1.68	−74.8	−3.1
8.5	+ 8.63	−5.19	+67.7	+ 5.0	− 9.95	+4.90	− 78.7	− 5.9	−34.09	+1.90	−77.9	−2.5
9.5	+ 3.44	−5.78	+72.7	− 7.2	− 5.05	+5.48	− 84.6	+ 3.4	−32.19	+2.12	−80.4	−2.1
10.5	− 2.34	−5.42	+65.5	−18.2	+ 0.43	+5.45	− 81.2	+12.7	−30.07	+2.33	−82.5	−1.6
11.5	− 7.76	−4.14	+47.3	−26.0	+ 5.88	+4.78	− 68.5	+20.1	−27.74	+2.51	−84.1	−1.0
12.5	−11.90	−2.26	+21.3	−29.6	+10.66	+3.78	− 48.4	+25.0	−25.23	+2.68	−85.1	−0.5
13.5	−14.16	−0.09	− 8.3	−28.3	+14.44	+2.33	− 23.4	+27.6	−22.55	+2.82	−85.6	+0.1
14.5	−14.25	+2.07	−36.6	−23.2	+16.77	+0.81	+ 4.2	+27.4	−19.73	+2.96	−85.5	+0.6
15.5	−12.18	+3.83	−59.8	−14.4	+17.58	−0.70	+ 31.6	+24.8	−16.77	+3.08	−84.9	+1.1
16.5	− 8.35	+5.05	−74.2	− 3.9	+16.88	−2.07	+ 56.4	+20.5	−13.69	+3.20	−83.8	+1.7
17.5	− 3.30	+5.52	−78.1	+ 7.0	+14.81	−3.20	+ 76.9	+14.7	−10.49	+3.27	−82.1	+2.3
18.5	+ 2.22	+5.22	−71.1	+17.6	+11.61	−4.07	+ 91.6	+ 8.1	− 7.22	+3.32	−79.8	+2.8
19.5	+ 7.44	+4.15	−53.5	+25.1	+ 7.54	−4.62	+ 99.7	+ 1.0	− 3.90	+3.34	−77.0	+3.2
20.5	+11.59	+2.44	−28.4	+29.3	+ 2.92	−4.83	+100.7	− 6.2	− 0.56	+3.35	−73.8	+3.8
21.5	+14.03	+0.30	+ 0.9	+29.4	− 1.91	−4.71	+ 94.5	−12.9	+ 2.79	+3.35	−70.0	+4.2
22.5	+14.33	−1.98	+30.3	+24.8	− 6.62	−4.25	+ 81.6	−18.7	+ 6.14	+3.32	−65.8	+4.5
23.5	+12.35	−4.01	+55.1	+15.8	−10.87	−3.40	+ 62.9	−23.9	+ 9.46	+3.27	−61.3	+5.0
24.5	+ 8.34	−5.39	+70.9	+ 4.0	−14.27	−2.28	+ 39.0	−26.3	+12.73	+3.19	−56.3	+5.5
25.5	+ 2.95	−5.92	+74.9	− 8.5	−16.55	−0.89	+ 12.7	−28.4	+15.92	+3.10	−50.8	+5.9
26.5	− 2.97	−5.42	+66.4	−19.7	−17.44	+0.71	− 15.7	−26.6	+19.02	+3.00	−44.9	+6.2
27.5	− 8.39	−4.05	+46.7	−27.4	−16.73	+2.46	− 42.3	−23.6	+22.02	+2.88	−38.7	+6.4
28.5	−12.44	−2.08	+19.3	−30.6	−14.27	+3.66	− 65.9	−14.8	+24.90	+2.73	−32.3	+6.7
29.5	−14.52	+0.17	−11.3	−29.0	−10.61	+4.96	− 80.7	− 7.3	+27.63	+2.56	−25.6	+6.9
30.5	−14.35	+2.31	−40.3	−22.9	− 5.65	+5.59	− 88.0	+ 2.6	+30.19	+2.39	−18.7	+7.1
31.5	−12.04	+4.07	−63.2	−14.0	− 0.06	+5.60	− 85.4	+11.9	+32.58	+2.21	−11.6	+7.2
32.5	− 7.97		−77.2		+ 5.54		− 73.5		+34.79		− 4.4	

Elongationen

MIMAS

Jan.	h	Jan.	h	Febr.	h	Febr.	h	März	h
0	5.0 O	19	23.8 O	8	7.4 W	28	2.4 W	18	10.0 O
0	16.3 W	20	11.1 W	8	18.7 O	28	13.7 O	18	21.3 W
1	3.6 O	20	22.4 O	9	6.0 W	29	1.0 W	19	8.6 O
1	14.9 W	21	9.7 W	9	17.3 O	29	12.3 O	19	20.0 W
2	2.2 O	21	21.0 O	10	4.6 W	29	23.6 W	20	7.3 O
2	13.5 W	22	8.4 W	10	15.9 O	März		20	18.6 W
3	0.8 O	22	19.7 O	11	3.2 W	1	10.9 O	21	5.9 O
3	12.1 W	23	7.0 W	11	14.5 O	1	22.2 W	21	17.2 W
3	23.4 O	23	18.3 O	12	1.8 W	2	9.5 O	22	4.5 O
4	10.7 W	24	5.6 W	12	13.1 O	2	20.8 W	22	15.8 W
4	22.0 O	24	16.9 O	13	0.4 W	3	8.1 O	23	3.1 O
5	9.3 W	25	4.2 W	13	11.7 O	3	19.5 W	23	14.4 W
5	20.6 O	25	15.5 O	13	23.0 W	4	6.8 O	24	1.8 O
6	8.0 W	26	2.8 W	14	10.3 O	4	18.1 W	24	13.1 W
6	19.3 O	26	14.1 O	14	21.6 W	5	5.4 O	25	0.4 O
7	6.6 W	27	1.4 W	15	8.9 O	5	16.7 W	25	11.7 W
7	17.9 O	27	12.7 O	15	20.2 W	6	4.0 O	25	23.0 O
8	5.2 W	28	0.0 W	16	7.5 O	6	15.3 W	26	10.3 W
8	16.5 O	28	11.3 O	16	18.9 W	7	2.6 O	26	21.6 O
9	3.8 W	28	22.6 W	17	6.2 O	7	13.9 W	27	9.0 W
9	15.1 O	29	9.9 O	17	17.5 W	8	1.2 O	27	20.3 O
10	2.4 W	29	21.2 W	18	4.8 O	8	12.5 W	28	7.6 W
10	13.7 O	30	8.6 O	18	16.1 W	8	23.9 O	28	18.9 O
11	1.0 W	30	19.9 W	19	3.5 O	9	11.2 W	29	6.2 W
11	12.3 O	31	7.2 O	19	14.8 W	9	22.5 O	29	17.5 O
11	23.6 W	31	18.5 W	20	2.1 O	10	9.8 W	30	4.8 W
12	10.9 O	Febr.		20	13.4 W	10	21.1 O	30	16.2 O
12	22.2 W	1	5.8 O	21	0.7 O	11	8.4 W	31	3.5 W
13	9.5 O	1	17.1 W	21	12.0 W	11	19.7 O	31	14.8 O
13	20.8 W	2	4.4 O	21	23.4 O	12	7.0 W	April	
14	8.2 O	2	15.7 W	22	10.7 W	12	18.3 O	1	2.1 W
14	19.5 W	3	3.0 O	22	22.0 O	13	5.6 W	1	13.4 O
15	6.8 O	3	14.3 W	23	9.3 W	13	16.9 O	2	0.7 W
15	18.1 W	4	1.6 O	23	20.6 O	14	4.2 W	2	12.1 O
16	5.4 O	4	12.9 W	24	7.9 W	14	15.6 O	2	23.4 W
16	16.7 W	5	0.2 O	24	19.2 O	15	2.9 W	3	10.7 O
17	4.0 O	5	11.5 W	25	6.5 W	15	14.2 O	3	22.0 W
17	15.3 W	5	22.9 O	25	17.8 O	16	1.5 W	4	9.3 O
18	2.6 O	6	10.2 W	26	5.1 W	16	12.8 O	4	20.6 W
18	13.9 W	6	21.5 O	26	16.4 O	17	0.1 W	5	7.9 O
19	1.2 O	7	8.8 W	27	3.7 W	17	11.4 O	5	19.3 W
19	12.5 W	7	20.1 O	27	15.1 O	17	22.7 W	6	6.6 O

Elongationen

MIMAS

April	h	April	h	Sept.	h	Okt.	h	Nov.	h
6	17.9 W	26	13.0 W	28	14.8 O	17	22.5 W	6	6.1 O
7	5.2 O	27	0.3 O	29	2.1 W	18	9.8 O	6	17.4 W
7	16.5 W	27	11.6 W	29	13.4 O	18	21.1 W	7	4.7 O
8	3.8 O	27	22.9 O	30	0.7 W	19	8.4 O	7	16.0 W
8	15.2 W	28	10.2 W	30	12.0 O	19	19.7 W	8	3.3 O
9	2.5 O	28	21.5 O	30	23.3 W	20	7.0 O	8	14.6 W
9	13.9 W	29	8.8 W	Okt.		20	18.4 W	9	1.9 O
10	1.2 O	29	20.1 O	1	10.6 O	21	5.7 O	9	13.2 W
10	12.5 W	30	7.4 W	1	21.9 W	21	17.0 W	10	0.6 O
10	23.8 O	30	18.7 O	2	9.2 O	22	4.3 O	10	11.9 W
11	11.1 W	Mai		2	20.6 W	22	15.6 W	10	23.2 O
11	22.4 O	1	6.0 W	3	7.9 O	23	2.9 O	11	10.5 W
12	9.7 W	1	17.4 O	3	19.2 W	23	14.2 W	11	21.8 O
12	21.0 O	2	4.7 W	4	6.5 O	24	1.5 O	12	9.1 W
13	8.4 W	2	16.0 O	4	17.8 W	24	12.8 W	12	20.4 O
13	19.7 O	3	3.3 W	5	5.1 O	25	0.1 O	13	7.7 W
14	7.0 W	3	14.6 O	5	16.4 W	25	11.4 W	13	19.0 O
14	18.3 O	Sept.		6	3.7 O	25	22.7 O	14	6.3 W
15	5.6 W	17	7.3 O	6	15.1 W	26	10.0 W	14	17.6 O
15	16.9 O	17	18.6 W	7	2.4 O	26	21.3 O	15	5.0 W
16	4.2 W	18	5.9 O	7	13.7 W	27	8.6 W	15	16.3 O
16	15.5 O	18	17.2 W	8	1.0 O	27	19.9 O	16	3.6 W
17	2.8 W	19	4.5 O	8	12.3 W	28	7.2 W	16	14.9 O
17	14.2 O	19	15.8 W	8	23.6 O	28	18.6 O	17	2.2 W
18	1.5 W	20	3.1 O	9	10.9 W	29	5.9 W	17	13.5 O
18	12.8 O	20	14.4 W	9	22.2 O	29	17.2 O	18	0.8 W
19	0.1 W	21	1.8 O	10	9.5 W	30	4.5 W	18	12.1 O
19	11.4 O	21	13.1 W	10	20.9 O	30	15.8 O	18	23.4 W
19	22.7 W	22	0.4 O	11	8.2 W	31	3.1 W	19	10.7 O
20	10.0 O	22	11.7 W	11	19.5 O	31	14.4 O	19	22.0 W
20	21.3 W	22	23.0 O	12	6.8 W	Nov.		20	9.4 O
21	8.6 O	23	10.3 W	12	18.1 O	1	1.7 W	20	20.7 W
21	19.9 W	23	21.6 O	13	5.4 W	1	13.0 O	21	8.0 O
22	7.2 O	24	8.9 W	13	16.7 O	2	0.3 W	21	19.3 W
22	18.5 W	24	20.2 O	14	4.0 W	2	11.6 O	22	6.6 O
23	5.8 O	25	7.6 W	14	15.4 O	2	22.9 W	22	17.9 W
23	17.1 W	25	18.9 O	15	2.7 W	3	10.2 O	23	5.2 O
24	4.4 O	26	6.2 W	15	14.0 O	3	21.5 W	23	16.5 W
24	15.7 W	26	17.5 O	16	1.3 W	4	8.9 O	24	3.8 O
25	3.0 O	27	4.8 W	16	12.6 O	4	20.2 W	24	15.1 W
25	14.3 W	27	16.1 O	16	23.9 W	5	7.5 O	25	2.4 O
26	1.7 O	28	3.4 W	17	11.2 O	5	18.8 W	25	13.7 W

Elongationen

MIMAS		MIMAS		ENCELADUS					
Nov.	h	Dez.	h	Jan.	h	Jan.	h	Febr.	h
26	1.1 O	15	8.6 W	3	2.6 W	31	21.0 W	28	23.1 O
26	12.4 W	15	20.0 O	3	19.1 O	Febr.		29	15.5 W
26	23.7 O	16	7.3 W	4	11.5 W	1	13.4 O	März	
27	11.0 W	16	18.6 O	5	4.0 O	2	5.9 W	1	8.0 O
27	22.3 O	17	5.9 W	5	20.4 W	2	22.3 O	2	0.4 W
28	9.6 W	17	17.2 O	6	12.8 O	3	14.7 W	2	16.9 O
28	20.9 O	18	4.5 W	7	5.3 W	4	7.2 O	3	9.3 W
29	8.2 W	18	15.8 O	7	21.7 O	4	23.6 W	4	1.7 O
29	19.5 O	19	3.1 W	8	14.1 W	5	16.1 O	4	18.2 W
30	6.8 W	19	14.4 O	9	6.6 O	6	8.5 W	5	10.6 O
30	18.1 O	20	1.7 W	9	23.0 W	7	1.0 O	6	3.1 W
Dez.		20	13.0 O	10	15.5 O	7	17.4 W	6	19.5 O
1	5.5 W	21	0.3 W	11	7.9 W	8	9.8 O	7	11.9 W
1	16.8 O	21	11.6 O	12	0.3 O	9	2.3 W	8	4.4 O
2	4.1 W	21	22.9 W	12	16.8 W	9	18.7 O	8	20.8 W
2	15.4 O	22	10.2 O	13	9.2 O	10	11.2 W	9	13.3 O
3	2.7 W	22	21.5 W	14	1.6 W	11	3.6 O	10	5.7 W
3	14.0 O	23	8.8 O	14	18.1 O	11	20.0 W	10	22.2 O
4	1.3 W	23	20.2 W	15	10.5 W	12	12.5 O	11	14.6 W
4	12.6 O	24	7.5 O	16	3.0 O	13	4.9 W	12	7.1 O
4	23.9 W	24	18.8 W	16	19.4 W	13	21.4 O	12	23.5 W
5	11.2 O	25	6.1 O	17	11.8 O	14	13.8 W	13	16.0 O
5	22.5 W	25	17.4 W	18	4.3 W	15	6.3 O	14	8.4 W
6	9.8 O	26	4.7 O	18	20.7 O	15	22.7 W	15	0.8 O
6	21.1 W	26	16.0 W	19	13.1 W	16	15.1 O	15	17.3 W
7	8.4 O	27	3.3 O	20	5.6 O	17	7.6 W	16	9.7 O
7	19.8 W	27	14.6 W	20	22.0 W	18	0.0 O	17	2.2 W
8	7.1 O	28	1.9 O	21	14.4 O	18	16.5 W	17	18.6 O
8	18.4 W	28	13.2 W	22	6.9 W	19	8.9 O	18	11.1 W
9	5.7 O	29	0.5 O	22	23.3 O	20	1.3 W	19	3.5 O
9	17.0 W	29	11.8 W	23	15.8 W	20	17.8 O	19	20.0 W
10	4.3 O	29	23.1 O	24	8.2 O	21	10.2 W	20	12.4 O
10	15.6 W	30	10.4 W	25	0.6 W	22	2.7 O	21	4.9 W
11	2.9 O	30	21.7 O	25	17.1 O	22	19.1 W	21	21.3 O
11	14.2 W	31	9.0 W	26	9.5 W	23	11.6 O	22	13.7 W
12	1.5 O	31	20.4 O	27	1.9 O	24	4.0 W	23	6.2 O
12	12.8 W			27	18.4 W	24	20.4 O	23	22.6 W
13	0.1 O	ENCELADUS		28	10.8 O	25	12.9 W	24	15.1 O
13	11.4 W	Jan.	h	29	3.2 W	26	5.3 O	25	7.5 W
13	22.7 O	1	1.4 O	29	19.7 O	26	21.8 W	26	0.0 O
14	10.0 W	1	17.8 W	30	12.1 W	27	14.2 O	26	16.4 W
14	21.3 O	2	10.2 O	31	4.6 O	28	6.6 W	27	8.9 O

Elongationen

ENCELADUS

März	h	April	h	Okt.	h	Nov.	h	Dez.	h
28	1.3 W	25	20.1 W	6	15.7 O	4	10.3 O	3	5.0 O
28	17.8 O	26	12.6 O	7	8.1 W	5	2.7 W	3	21.4 W
29	10.2 W	27	5.0 W	8	0.6 O	5	19.1 O	4	13.9 O
30	2.7 O	27	21.5 O	8	17.1 W	6	11.6 W	5	6.3 W
30	19.1 W	28	13.9 W	9	9.5 O	7	4.0 O	5	22.7 O
31	11.5 O	29	6.4 O	10	1.9 W	7	20.5 W	6	15.1 W
April		29	22.8 W	10	18.4 O	8	12.9 O	7	7.6 O
1	4.0 W	30	15.3 O	11	10.8 W	9	5.3 W	8	0.0 W
1	20.4 O	Mai		12	3.3 O	9	21.8 O	8	16.4 O
2	12.9 W	1	7.7 W	12	19.7 W	10	14.2 W	9	8.9 W
3	5.3 O	2	0.2 O	13	12.2 O	11	6.7 O	10	1.3 O
3	21.8 W	2	16.6 W	14	4.6 W	11	23.1 W	10	17.8 W
4	14.2 O	3	9.1 O	14	21.1 O	12	15.6 O	11	10.2 O
5	6.7 W	Sept.		15	13.5 W	13	8.0 W	12	2.7 W
5	23.1 O	17	11.1 O	16	5.9 O	14	0.4 O	12	19.1 O
6	15.6 W	18	3.5 W	16	22.3 W	14	16.9 W	13	11.5 W
7	8.0 O	18	20.0 O	17	14.8 O	15	9.3 O	14	4.0 O
8	0.5 W	19	12.4 W	18	7.2 W	16	1.8 W	14	20.4 W
8	16.9 O	20	4.9 O	18	23.7 O	16	18.2 O	15	12.8 O
9	9.4 W	20	21.3 W	19	16.1 W	17	10.7 W	16	5.3 W
10	1.8 O	21	13.8 O	20	8.6 O	18	3.1 O	16	21.7 O
10	18.3 W	22	6.2 W	21	1.0 W	18	19.6 W	17	14.1 W
11	10.7 O	22	22.7 O	21	17.4 O	19	12.0 O	18	6.5 O
12	3.2 W	23	15.1 W	22	9.9 W	20	4.5 W	18	22.9 W
12	19.6 O	24	7.6 O	23	2.3 O	20	20.9 O	19	15.3 O
13	12.1 W	25	0.0 W	23	18.8 W	21	13.4 W	20	7.7 W
14	4.5 O	25	16.5 O	24	11.2 O	22	5.8 O	21	0.2 O
14	21.0 W	26	8.9 W	25	3.6 W	22	22.3 W	21	16.6 W
15	13.4 O	27	1.4 O	25	20.1 O	23	14.7 O	22	9.0 O
16	5.9 W	27	17.8 W	26	12.5 W	24	7.2 W	23	1.5 W
16	22.3 O	28	10.3 O	27	5.0 O	24	23.6 O	23	17.9 O
17	14.8 W	29	2.7 W	27	21.4 W	25	16.1 W	24	10.4 W
18	7.2 O	29	19.2 O	28	13.9 O	26	8.5 O	25	2.8 O
18	23.7 W	30	11.6 W	29	6.3 W	27	1.0 W	25	19.2 W
19	16.1 O	Okt.		29	22.7 O	27	17.4 O	26	11.7 O
20	8.6 W	1	4.1 O	30	15.2 W	28	9.9 W	27	4.1 W
21	1.0 O	1	20.5 W	31	7.6 O	29	2.3 O	27	20.5 O
21	17.5 W	2	13.0 O	Nov.		29	18.8 W	28	13.0 W
22	9.9 O	3	5.4 W	1	0.1 W	30	11.2 O	29	5.4 O
23	2.4 W	3	21.9 O	1	16.5 O	Dez.		29	21.8 W
23	18.8 O	4	14.3 W	2	8.9 W	1	3.7 W	30	14.3 O
24	11.2 W	5	6.8 O	3	1.4 O	1	20.1 O	31	6.7 W
25	3.7 O	5	23.2 W	3	17.8 W	2	12.6 W	31	23.2 O

Elongationen

TETHYS

Jan.	h	Febr.	h	März	h	April	h	Okt.	h
1	19.2 W	9	11.6 O	19	4.4 W	26	21.5 O	16	17.6 W
2	17.8 O	10	10.3 W	20	3.1 O	27	20.2 W	17	16.2 O
3	16.4 W	11	9.0 O	21	1.7 W	28	18.9 O	18	14.9 W
4	15.1 O	12	7.6 W	22	0.4 O	29	17.5 W	19	13.5 O
5	13.7 W	13	6.3 O	22	23.1 W	30	16.2 O	20	12.2 W
6	12.4 O	14	4.9 W	23	21.7 O	Mai		21	10.8 O
7	11.0 W	15	3.6 O	24	20.4 W	1	14.9 W	22	9.5 W
8	9.7 O	16	2.2 W	25	19.0 O	2	13.5 O	23	8.1 O
9	8.3 W	17	0.9 O	26	17.7 W	3	12.2 W	24	6.8 W
10	7.0 O	17	23.5 W	27	16.4 O	Sept.		25	5.5 O
11	5.6 W	18	22.2 O	28	15.0 W	17	11.1 O	26	4.1 W
12	4.2 O	19	20.9 W	29	13.7 O	18	9.7 W	27	2.8 O
13	2.9 W	20	19.5 O	30	12.4 W	19	8.4 O	28	1.4 W
14	1.5 O	21	18.2 W	31	11.0 O	20	7.1 W	29	0.1 O
15	0.2 W	22	16.8 O	April		21	5.7 O	29	22.7 W
15	22.8 O	23	15.5 W	1	9.7 W	22	4.4 W	30	21.4 O
16	21.5 W	24	14.1 O	2	8.3 O	23	3.1 O	31	20.0 W
17	20.1 O	25	12.8 W	3	7.0 W	24	1.7 W	Nov.	
18	18.7 W	26	11.4 O	4	5.7 O	25	0.4 O	1	18.7 O
19	17.4 O	27	10.1 W	5	4.3 W	25	23.1 W	2	17.4 W
20	16.0 W	28	8.7 O	6	3.0 O	26	21.7 O	3	16.0 O
21	14.7 O	29	7.4 W	7	1.6 W	27	20.4 W	4	14.7 W
22	13.3 W	März		8	0.3 O	28	19.1 O	5	13.3 O
23	12.0 O	1	6.0 O	8	23.0 W	29	17.7 W	6	12.0 W
24	10.6 W	2	4.7 W	9	21.6 O	30	16.4 O	7	10.6 O
25	9.3 O	3	3.3 O	10	20.3 W	Okt.		8	9.3 W
26	7.9 W	4	2.0 W	11	19.0 O	1	15.1 W	9	8.0 O
27	6.5 O	5	0.6 O	12	17.6 W	2	13.7 O	10	6.6 W
28	5.2 W	5	23.3 W	13	16.3 O	3	12.4 W	11	5.3 O
29	3.8 O	6	21.9 O	14	14.9 W	4	11.0 O	12	3.9 W
30	2.5 W	7	20.6 W	15	13.6 O	5	9.7 W	13	2.6 O
31	1.1 O	8	19.2 O	16	12.3 W	6	8.3 O	14	1.2 W
31	23.8 W	9	17.9 W	17	10.9 O	7	7.0 W	14	23.9 O
Febr.		10	16.5 O	18	9.6 W	8	5.6 O	15	22.5 W
1	22.4 O	11	15.2 W	19	8.3 O	9	4.3 W	16	21.2 O
2	21.1 W	12	13.8 O	20	6.9 W	10	3.0 O	17	19.9 W
3	19.7 O	13	12.5 W	21	5.6 O	11	1.6 W	18	18.5 O
4	18.4 W	14	11.2 O	22	4.2 W	12	0.3 O	19	17.2 W
5	17.0 O	15	9.8 W	23	2.9 O	12	22.9 W	20	15.8 O
6	15.7 W	16	8.5 O	24	1.6 W	13	21.6 O	21	14.5 W
7	14.3 O	17	7.1 W	25	0.2 O	14	20.2 W	22	13.1 O
8	13.0 W	18	5.8 O	25	22.9 W	15	18.9 O	23	11.8 W

Elongationen

TETHYS		DIONE							
Nov.	h	Jan.	h	Febr.	h	April	h	Nov.	h
24	10.4 O	1	18.7 W	29	13.9 O	27	1.7 O	3	10.5 W
25	9.1 W	3	3.3 O	März		28	10.6 W	4	19.4 O
26	7.7 O	4	12.1 W	1	22.8 W	29	19.5 O	6	4.2 W
27	6.4 W	5	20.9 O	3	7.6 O	Mai		7	13.1 O
28	5.0 O	7	5.7 W	4	16.5 W	1	4.3 W	8	21.9 W
29	3.7 W	8	14.5 O	6	1.3 O	2	13.2 O	10	6.7 O
30	2.3 O	9	23.3 W	7	10.1 W	3	22.1 W	11	15.6 W
Dez.		11	8.1 O	8	19.0 O	Sept.		13	0.4 O
1	1.0 W	12	17.0 W	10	3.8 W	17	21.5 W	14	9.3 W
1	23.6 O	14	1.8 O	11	12.7 O	19	6.3 O	15	18.1 O
2	22.3 W	15	10.6 W	12	21.5 W	20	15.2 W	17	3.0 W
3	20.9 O	16	19.4 O	14	6.3 O	22	0.0 O	18	11.8 O
4	19.5 W	18	4.2 W	15	15.2 W	23	8.9 W	19	20.6 W
5	18.2 O	19	13.0 O	17	0.0 O	24	17.8 O	21	5.5 O
6	16.8 W	20	21.8 W	18	8.9 W	26	2.6 W	22	14.3 W
7	15.5 O	22	6.6 O	19	17.7 O	27	11.5 O	23	23.1 O
8	14.1 W	23	15.5 W	21	2.6 W	28	20.3 W	25	8.0 W
9	12.8 O	25	0.3 O	22	11.4 O	30	5.2 O	26	16.8 O
10	11.4 W	26	9.1 W	23	20.3 W	Okt.		28	1.6 W
11	10.1 O	27	17.9 O	25	5.1 O	1	14.1 W	29	10.5 O
12	8.7 W	29	2.8 W	26	14.0 W	2	22.9 O	30	19.3 W
13	7.3 O	30	11.6 O	27	22.8 O	4	7.8 W	Dez.	
14	6.0 W	31	20.4 W	29	7.7 W	5	16.6 O	2	4.1 O
15	4.6 O	Febr.		30	16.5 O	7	1.5 W	3	13.0 W
16	3.3 W	2	5.2 O	April		8	10.3 O	4	21.8 O
17	1.9 O	3	14.1 W	1	1.4 W	9	19.2 W	6	6.6 W
18	0.6 W	4	22.9 O	2	10.3 O	11	4.1 O	7	15.4 O
18	23.2 O	6	7.7 W	3	19.1 W	12	12.9 W	9	0.3 W
19	21.8 W	7	16.6 O	5	4.0 O	13	21.8 O	10	9.1 O
20	20.5 O	9	1.4 W	6	12.8 W	15	6.6 W	11	17.9 W
21	19.1 W	10	10.2 O	7	21.7 O	16	15.5 O	13	2.7 O
22	17.8 O	11	19.0 W	9	6.6 W	18	0.3 W	14	11.6 W
23	16.4 W	13	3.9 O	10	15.4 O	19	9.2 O	15	20.4 O
24	15.1 O	14	12.7 W	12	0.3 W	20	18.0 W	17	5.2 W
25	13.7 W	15	21.5 O	13	9.1 O	22	2.9 O	18	14.0 O
26	12.4 O	17	6.4 W	14	18.0 W	23	11.7 W	19	22.9 W
27	11.0 W	18	15.2 O	16	2.8 O	24	20.6 O	21	7.7 O
28	9.6 O	20	0.0 W	17	11.7 W	26	5.4 W	22	16.5 W
29	8.3 W	21	8.9 O	18	20.6 O	27	14.3 O	24	1.3 O
30	6.9 O	22	17.7 W	20	5.4 W	28	23.2 W	25	10.2 W
31	5.6 W	24	2.6 O	21	14.3 O	30	8.1 O	26	19.0 O
		25	11.4 W	22	23.1 W	31	16.9 W	28	3.8 W
		26	20.2 O	24	8.0 O	Nov.		29	12.6 O
		28	5.1 W	25	16.9 W	2	1.7 O	30	21.5 W

Elongationen

RHEA

	h		h
Jan.		April	
1	14.9 W	3	4.7 O
3	21.1 O	5	10.9 W
6	3.2 W	7	17.1 O
8	9.4 O	9	23.3 W
10	15.5 W	12	5.6 O
12	21.7 O	14	11.8 W
15	3.8 W	16	18.1 O
17	10.0 O	19	0.3 W
19	16.1 W	21	6.6 O
21	22.3 O	23	12.8 W
24	4.4 W	25	19.1 O
26	10.6 O	28	1.4 W
28	16.7 W	30	7.7 O
30	22.9 O	Mai	
Febr.		2	13.9 W
2	5.0 W	Sept.	
4	11.2 O	17	13.8 O
6	17.4 W	19	20.1 W
8	23.6 O	22	2.4 O
11	5.8 W	24	8.6 W
13	11.9 O	26	14.9 O
15	18.1 W	28	21.2 W
18	0.3 O	Okt.	
20	6.5 W	1	3.5 O
22	12.7 O	3	9.7 W
24	18.9 W	5	16.0 O
27	1.1 O	7	22.2 W
29	7.3 W	10	4.4 O
März		12	10.7 W
2	13.5 O	14	16.9 O
4	19.7 W	16	23.2 W
7	1.9 O	19	5.4 O
9	8.1 W	21	11.6 W
11	14.3 O	23	17.8 O
13	20.5 W	26	0.0 W
16	2.7 O	28	6.2 O
18	8.9 W	30	12.4 W
20	15.1 O	Nov.	
22	21.3 W	1	18.6 O
25	3.5 O	4	0.8 W
27	9.8 W	6	7.1 O
29	16.1 O	8	13.3 W
31	22.4 W	10	19.5 O

RHEA

	h
Nov.	
13	1.8 W
15	8.0 O
17	14.3 W
19	20.5 O
22	2.7 W
24	8.9 O
26	15.0 W
28	21.2 O
Dez.	
1	3.4 W
3	9.6 O
5	15.8 W
7	21.9 O
10	4.1 W
12	10.3 O
14	16.5 W
16	22.6 O
19	4.8 W
21	11.0 O
23	17.1 W
25	23.3 O
28	5.4 W
30	11.6 O

TITAN

	h
April	
18	1.4 W
26	8.4 O
Mai	
4	1.6 W
Sept.	
17	15.0 O
25	8.3 W
Okt.	
3	15.0 O
11	8.1 W
19	14.7 O
27	7.5 W
Nov.	
4	13.8 O
12	6.4 W
20	12.5 O
28	4.8 W
Dez.	
6	10.6 O
14	2.8 W
22	8.3 O
30	0.3 W

HYPERION

	h
Jan. 8	10.0 O
20	1.0 W
29	16.5 O
Febr. 10	8.0 W
19	23.9 O
März 2	16.3 W
12	8.6 O
24	1.9 W
April 2	18.7 O
14	13.3 W
24	5.6 O
Sept. 21	12.3 O
Okt. 3	6.3 W
12	20.4 O
24	13.1 W
Nov. 3	2.6 O
14	18.0 W
24	7.3 O
Dez. 5	21.6 W
15	10.3 O
26	23.8 W

TITAN

	h
Jan.	
5	18.9 O
13	10.6 W
21	16.2 O
29	8.0 W
Febr.	
6	13.6 O
14	5.7 W
22	11.7 O
März	
1	3.8 W
9	10.0 O
17	2.5 W
25	8.9 O
April	
2	1.7 W
10	8.6 O

JAPETUS

	h	
Jan. 15	10.0	Westliche Elongation
Febr. 3	10.3	Obere Konjunktion
23	22.5	Östliche Elongation
März 15	6.3	Untere Konjunktion
April 3	8.2	Westliche Elongation
22	21.0	Obere Konjunktion
Okt. 2	11.9	Obere Konjunktion
23	14.1	Östliche Elongation
Nov. 12	16.8	Untere Konjunktion
Dez. 1	11.3	Westliche Elongation
20	20.4	Obere Konjunktion

Konstellationen 1916

Tag	h	
Jan.		
4	5	♄ ☍ ☉
5	14	☿ ☌ ☾
6	19	♀ ☌ ☾
9	18	♃ ☌ ☾
18	10	♄ ☌ ☾
20	6	☿ gr. östl. Elong.
22	3	♆ ☍ ☉
22	7	♂ ☌ ☾
25	23	☿ im Perihel
Febr.		
3	8	☿ ☌ ☾
4	20	☿ untere ☌ ☉
5	7	♅ ☌ ☉
5	23	♀ ☌ ☾
6	13	♃ ☌ ☾
9	15	♂ ☍ ☉
13	15	♀ ☌ ♃
		♀ 0° 27′ nördl.
14	13	♄ ☌ ☾
17	18	♂ ☌ ☾
März		
1	12	☿ gr. westl. Elong.
1	15	☿ ☌ ☾
5	10	♃ ☌ ☾
7	1	♀ ☌ ☾
9	22	☿ im Aphel
12	20	♄ ☌ ☾
13	14	♂ im Aphel
15	13	♂ ☌ ☾
31	4	♀ im Perihel
April		
1	2	♃ ☌ ☉
1	9	☿ ☌ ☾
2	7	♃ ☌ ☾
6	0	♀ ☌ ☾
8	21	☿ ☌ ♃
		☿ 0° 24′ südl.
9	6	♄ ☌ ☾
12	2	♂ ☌ ☾
14	9	☿ obere ☌ ☉
17	7	♃ im Perihel
22	22	☿ im Perihel
23	22	♀ gr. östl. Elong.
30	3	♃ ☌ ☾

Tag	h	
Mai		
3	10	☿ ☌ ☾
5	18	♀ ☌ ☾
6	18	♄ ☌ ☾
10	5	♂ ☌ ☾
12	4	☿ gr. östl. Elong.
27	7	♀ im größten Glanz
27	20	♃ ☌ ☾
31	23	☿ ☌ ☾
Juni		
3	6	♄ ☌ ☾
3	14	♀ ☌ ☾
5	13	☿ untere ☌ ☉
5	22	☿ im Aphel
7	14	♂ ☌ ☾
22	3	♀ ☌ ♄
		♀ 0° 57′ südl.
24	12	♃ ☌ ☾
28	1	☿ ☌ ☾
29	18	☿ gr. westl. Elong.
30	8	♀ ☌ ☾
30	19	♄ ☌ ☾
Juli		
3	8	♀ untere ☌ ☉
6	4	♂ ☌ ☾
12	9	♄ ☌ ☉
19	21	☿ im Perihel
21	9	☿ ☌ ♄
		☿ 1° 9′ nördl.
21	15	♀ im Aphel
22	1	♃ ☌ ☾
25	5	♆ ☌ ☉
26	18	♀ ☌ ☾
27	22	☿ obere ☌ ☉
28	9	♄ ☌ ☾
29	21	☿ ☌ ☾
Aug.		
3	18	♂ ☌ ☾
8	23	♀ im größten Glanz
10	6	♅ ☍ ☉
18	12	♃ ☌ ☾
24	3	♀ ☌ ☾
24	22	♄ ☌ ☾
30	13	☿ ☌ ☾

Tag	h	
Sept.		
1	9	♂ ☌ ☾
1	21	☿ im Aphel
9	5	☿ gr. östl. Elong.
12	2	♀ gr. westl. Elong.
14	20	♃ ☌ ☾
21	11	♄ ☌ ☾
22	20	♀ ☌ ☾
28	0	☿ ☌ ☾
30	0	♂ ☌ ☾
Okt.		
4	23	☿ untere ☌ ☉
6	10	♀ ☌ α Leonis,
		♀ 0° 39′ südl.
12	0	♃ ☌ ☾
15	21	☿ im Perihel
18	23	♄ ☌ ☾
20	11	☿ gr. westl. Elong.
23	2	♀ ☌ ☾
23	14	♃ ☍ ☉
25	5	☿ ☌ ☾
28	17	♂ ☌ ☾
Nov.		
8	2	♃ ☌ ☾
11	3	♀ im Perihel
15	8	♄ ☌ ☾
22	7	♀ ☌ ☾
23	14	☿ obere ☌ ☉
24	23	☿ ☌ ☾
26	12	♂ ☌ ☾
28	20	☿ im Aphel
Dez.		
5	5	♃ ☌ ☾
12	14	♄ ☌ ☾
21	23	☿ ☌ ♂
		☿ 1° 10′ südl.
22	6	♀ ☌ ☾
23	9	♀ ☌ β Scorpii,
		♀ 0° 28′ nördl.
25	10	♂ ☌ ☾
25	15	☿ ☌ ☾

Präzession in Rektaszension p_α

Rekt. α	Deklination δ +60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°
h	s	s	s	s	s	s	s	s	s	s	s	s	s
0	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07

Präzession in Deklination p_δ

α	p_δ	α	p_δ	α	p_δ	α	p_δ
h	″	h	″	h	″	h	″
0	+20.0	6	0.0	12	−20.0	18	0.0
1	+19.4	7	− 5.2	13	−19.4	19	+ 5.2
2	+17.4	8	−10.0	14	−17.4	20	+10.0
3	+14.2	9	−14.2	15	−14.2	21	+14.2
4	+10.0	10	−17.4	16	−10.0	22	+17.4
5	+ 5.2	11	−19.4	17	− 5.2	23	+19.4
6	0.0	12	−20.0	18	0.0	24	+20.0

Präzessionswerte

Zeit	m	n	ψ	log π	Π
	″	″	″		° ′
1900.0	46.0850	20.0468	50.2564	9.67309	173 57.06
1905.0	46.0864	20.0464	50.2575	9.67305	173 59.80
1910.0	46.0878	20.0460	50.2586	9.67302	174 2.53
1915.0	46.0892	20.0456	50.2597	9.67299	174 5.27
1920.0	46.0906	20.0451	50.2608	9.67296	174 8.01
1925.0	46.0920	20.0447	50.2620	9.67293	174 10.75
1930.0	46.0934	20.0443	50.2631	9.67290	174 13.49

Länge λ	Präzession in Länge p_λ — Breite β 0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°	Länge λ	Präz. in Br. p_β — Präzession p_β	
0°	50.262″	.254″	.245″	.237″	.229″	50.221″	.213″	.205″	.196″	.188″	0°	+0.048″	+80
10	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	10	128	77
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	205	70
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	275	63
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338	+52
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	390	40
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	430	26
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	456	+14
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470	−1
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	469	16
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	453	29
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	424	42
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382	−54
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	328	63
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	265	72
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	193	77
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116	−81
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035	83
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	−0.048	80
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	128	77
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	−0.205	−70
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	275	63
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	338	52
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	390	40
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	−0.430	−26
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	456	−14
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	470	+1
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	469	16
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	−0.453	+29
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	424	42
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	382	54
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	328	63
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	−0.265	+72
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	193	77
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	116	81
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	−0.035	83
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048	

Präzession in Länge p_λ											Präz. in Br. p_β		
Länge λ	Breite β 0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°	Länge λ	Präzession p_β	
0°	50.262″	.270″	.279″	.287″	.295″	50.303″	.311″	.319″	.328″	.336″	0°	+0.048″	+80
10	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	10	128	77
20	.262	.269	.277	.284	.292	.299	.307	.314	.322	.329	20	205	70
30	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	30	275	63
40	50.262	.268	.273	.279	.285	50.291	.297	.303	.308	.314	40	+0.338	+52
50	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	50	390	40
60	.262	.265	.269	.272	.275	.279	.282	.286	.289	.293	60	430	26
70	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	70	456	+14
80	50.262	.263	.263	.264	.265	50.265	.266	.266	.267	.267	80	+0.470	−1
90	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	90	469	16
100	.262	.260	.257	.255	.253	.251	.249	.247	.244	.242	100	453	29
110	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	110	424	42
120	50.262	.257	.253	.248	.243	50.238	.233	.228	.223	.218	120	+0.382	−54
130	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	130	328	63
140	.262	.255	.249	.242	.235	.228	.221	.214	.207	.200	140	265	72
150	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	150	193	77
160	50.262	.254	.246	.238	.230	50.222	.214	.206	.198	.190	160	+0.116	−81
170	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	170	+0.035	83
180	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	180	−0.048	80
190	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	190	128	77
200	50.262	.255	.247	.240	.232	50.225	.217	.210	.202	.195	200	−0.205	−70
210	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	210	275	63
220	.262	.256	.251	.245	.239	.233	.227	.221	.216	.210	220	338	52
230	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	230	390	40
240	50.262	.259	.255	.252	.249	50.245	.242	.238	.235	.231	240	−0.430	−26
250	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	250	456	−14
260	.262	.261	.261	.260	.259	.259	.258	.258	.257	.257	260	470	+1
270	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	270	469	16
280	50.262	.264	.267	.269	.271	50.273	.275	.277	.280	.282	280	−0.453	+29
290	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	290	424	42
300	.262	.267	.271	.276	.281	.286	.291	.296	.301	.306	300	382	54
310	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	310	328	63
320	50.262	.269	.275	.282	.289	50.296	.303	.310	.317	.324	320	−0.265	+72
330	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	330	193	77
340	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	340	116	81
350	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	350	−0.035	83
360	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	360	+0.048	

Halber Tagbogen

δ	Geographische Breite φ										
	+45°	+46°	+47°	+48°	+49°	+50°	+51°	+52°	+53°	+54°	+55°
0°	6h 3.3m	6h 3.4m	6h 3.4m	6h 3.5m	6h 3.5m	6h 3.6m	6h 3.7m	6h 3.8m	6h 3.9m	6h 4.0m	6h 4.1m
+ 1	6 7.3	6 7.5	6 7.7	6 7.9	6 8.1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8
2	6 11.3	6 11.6	6 12.0	6 12.4	6 12.8	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5
3	6 15.3	6 15.8	6 16.3	6 16.8	6 17.4	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2
4	6 19.4	6 20.0	6 20.6	6 21.3	6 22.0	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0
+ 5	6 23.4	6 24.2	6 25.0	6 25.8	6 26.7	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8
6	6 27.5	6 28.4	6 29.3	6 30.4	6 31.4	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7
7	6 31.6	6 32.6	6 33.7	6 34.9	6 36.1	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6
8	6 35.7	6 36.9	6 38.2	6 39.5	6 40.9	6 42.3	6 43.7	6 45.3	6 47.0	6 48.7	6 50.5
9	6 39.8	6 41.2	6 42.6	6 44.1	6 45.6	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5
+10	6 44.0	6 45.6	6 47.1	6 48.8	6 50.5	6 52.3	6 54.2	6 56.1	6 58.2	7 0.3	7 2.6
11	6 48.2	6 49.9	6 51.7	6 53.5	6 55.4	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8
12	6 52.5	6 54.4	6 56.3	6 58.3	7 0.4	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1
13	6 56.9	6 58.9	7 1.0	7 3.1	7 5.4	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4
14	7 1.3	7 3.4	7 5.7	7 8.0	7 10.5	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9
+15	7 5.7	7 8.1	7 10.5	7 13.0	7 15.7	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6
16	7 10.2	7 12.7	7 15.4	7 18.1	7 21.0	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4
17	7 14.8	7 17.5	7 20.3	7 23.3	7 26.3	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3
18	7 19.5	7 22.4	7 25.4	7 28.5	7 31.8	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4
19	7 24.3	7 27.4	7 30.6	7 33.9	7 37.4	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8
+20	7 29.2	7 32.4	7 35.9	7 39.4	7 43.2	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4
21	7 34.1	7 37.6	7 41.3	7 45.1	7 49.1	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2
22	7 39.2	7 42.9	7 46.8	7 50.9	7 55.1	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4
23	7 44.4	7 48.4	7 52.5	7 56.8	8 1.4	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9
24	7 49.8	7 54.0	7 58.3	8 2.9	8 7.8	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8
+25	7 55.3	7 59.8	8 4.4	8 9.3	8 14.4	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1
26	8 1.0	8 5.7	8 10.7	8 15.8	8 21.3	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0
27	8 6.8	8 11.8	8 17.1	8 22.6	8 28.5	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5
28	8 12.9	8 18.2	8 23.8	8 29.7	8 36.0	8 42.6	8 49.8	8 57.5	9 5.8	9 14.9	9 24.8
29	8 19.2	8 24.8	8 30.8	8 37.1	8 43.8	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1
+30	8 25.7	8 31.7	8 38.1	8 44.8	8 52.0	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7

Halber Tagbogen

δ	Geographische Breite φ										
	+45°	+46°	+47°	+48°	+49°	+50°	+51°	+52°	+53°	+54°	+55°
0°	6^h $3^m.3$	6^h $3^m.4$	6^h $3^m.4$	6^h $3^m.5$	6^h $3^m.5$	6^h $3^m.6$	6^h $3^m.7$	6^h $3^m.8$	6^h $3^m.9$	6^h $4^m.0$	6^h $4^m.1$
−1	5 59.3	5 59.2	5 59.1	5 59.0	5 58.9	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3
2	5 55.3	5 55.1	5 54.8	5 54.6	5 54.3	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6
3	5 51.3	5 50.9	5 50.5	5 50.1	5 49.7	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9
4	5 47.3	5 46.8	5 46.2	5 45.7	5 45.1	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2
−5	5 43.2	5 42.6	5 41.9	5 41.2	5 40.5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4
6	5 39.2	5 38.4	5 37.6	5 36.8	5 35.8	5 34.9	5 33.9	5 32.9	5 31.8	5 30.8	5 29.6
7	5 35.1	5 34.2	5 33.2	5 32.2	5 31.1	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8
8	5 31.0	5 29.9	5 28.8	5 27.6	5 26.4	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9
9	5 26.9	5 25.7	5 24.4	5 23.0	5 21.7	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9
−10	5 22.8	5 21.4	5 19.9	5 18.4	5 16.9	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9
11	5 18.6	5 17.0	5 15.4	5 13.8	5 12.0	5 10.2	5 8.3	5 6.3	5 4.3	5 2.1	4 59.8
12	5 14.3	5 12.6	5 10.9	5 9.0	5 7.1	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7
13	5 10,1	5 8.2	5 6.3	5 4.3	5 2.2	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4
14	5 5.7	5 3.7	5 1.6	4 59.5	4 57.1	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0
−15	5 1.4	4 59.2	4 56.9	4 54.5	4 52.0	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5
16	4 56.9	4 54.6	4 52.1	4 49.5	4 46.9	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9
17	4 52.4	4 49.9	4 47.2	4 44.5	4 41.6	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1
18	4 47.8	4 45.1	4 42.2	4 39.3	4 36.2	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2
19	4 43.1	4 40.2	4 37.2	4 34.0	4 30.7	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1
−20	4 38.4	4 35.3	4 32.0	4 28.7	4 25.1	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.7
21	4 33.5	4 30.2	4 26.8	4 23.2	4 19.4	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2
22	4 28.6	4 25.0	4 21.4	4 17.5	4 13.5	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3
23	4 23.5	4 19.7	4 15.8	4 11.8	4 7.5	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2
24	4 18.3	4 14.3	4 10.2	4 5.8	4 1.3	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8
−25	4 12.9	4 8.7	4 4.3	3 59.7	3 54.9	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9
26	4 7.4	4 3.0	3 58.3	3 53.4	3 48.2	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6
27	4 1.7	3 57.0	3 52.1	3 46.9	3 41.3	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8
28	3 55.9	3 50.9	3 45.6	3 40.1	3 34.2	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3
29	3 49.8	3 44.5	3 38.9	3 33.0	3 26.7	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1
−30	3 43.6	3 37.9	3 32.0	3 25.7	3 18.9	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9

Reduktionstafel

für Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

Tag	Geographische Breite φ									
	+45°	+46°	+47°	+48°	+49°	+51°	+52°	+53°	+54°	+55°
	m	m	m	m	m	m	m	m	m	m
Jan. 1	−20.2	−16.5	−12.7	−8.7	−4.4	+4.7	+9.6	+14.8	+20.5	+26.4
11	18.8	15.4	11.8	8.0	4.2	4.4	8.9	13.8	18.8	24.4
21	16.7	13.7	10.5	7.1	3.7	3.8	7.9	12.1	16.6	21.4
31	14.2	11.6	8.8	6.0	3.1	3.2	6.6	10.1	13.9	17.9
Febr. 10	11.3	9.2	7.0	4.8	2.4	2.5	5.2	8.0	11.0	14.2
20	− 8.3	− 6.7	− 5.1	−3.5	−1.8	+1.8	+ 3.8	+ 5.8	+ 8.0	+10.3
März 1	5.3	4.2	3.3	2.2	1.1	1.2	2.4	3.7	5.1	6.5
11	− 2.3	− 1.8	− 1.4	−0.9	−0.5	+0.5	+ 1.0	+ 1.5	+ 2.2	+ 2.8
21	+ 0.8	+ 0.7	+ 0.5	+0.3	+0.2	−0.2	− 0.4	− 0.6	− 0.7	− 1.0
31	3.8	3.2	2.4	1.6	0.9	0.9	1.8	2.7	3.7	4.7
April 10	+ 6.8	+ 5.6	+ 4.3	+2.9	+1.5	−1.5	− 3.2	− 4.9	− 6.7	− 8.5
20	9.9	8.1	6.2	4.2	2.2	2.2	4.6	7.1	9.7	12.4
30	12.9	10.6	8.1	5.5	2.8	3.0	6.1	9.3	12.7	16.3
Mai 10	15.7	12.9	9.9	6.7	3.5	3.6	7.4	11.4	15.6	20.1
20	18.3	15.0	11.5	7.8	4.1	4.2	8.7	13.4	18.4	23.7
30	+20.5	+16.8	+12.9	+8.8	+4.6	−4.7	− 9.8	−15.2	−20.8	−26.9
Juni 9	22.0	18.0	13.8	9.5	4.9	5.1	10.6	16.4	22.6	29.2
19	22.6	18.5	14.2	9.8	5.0	5.3	10.9	16.9	23.3	30.2
29	22.3	18.2	14.0	9.6	5.0	5.2	10.7	16.6	22.9	29.6
Juli 9	21.1	17.2	13.2	9.1	4.7	4.9	10.1	15.6	21.5	27.8
19	+19.1	+15.6	+12.0	+8.2	+4.2	−4.4	− 9.1	−14.0	−19.3	−25.0
29	16.7	13.6	10.4	7.1	3.6	3.8	7.9	12.1	16.7	21.5
Aug. 8	14.0	11.4	8.7	5.9	3.0	3.2	6.5	10.0	13.9	17.8
18	11.1	9.0	6.8	4.7	2.4	2.5	5.1	7.8	10.9	13.9
28	8.1	6.6	5.0	3.4	1.7	1.8	3.7	5.7	7.9	10.1
Sept. 7	+ 5.1	+ 4.1	+ 3.1	+2.1	+1.1	−1.2	− 2.3	− 3.6	− 5.0	− 6.3
17	+ 2.1	+ 1.7	+ 1.3	+0.9	+0.4	−0.5	− 0.9	− 1.5	− 2.1	− 2.6
27	− 0.9	− 0.8	− 0.6	−0.4	−0.2	+0.2	+ 0.5	+ 0.6	+ 0.8	+ 1.1
Okt. 7	3.8	3.2	2.5	1.6	0.8	0.9	1.8	2.8	3.7	4.8
17	6.9	5.6	4.3	2.9	1.5	1.6	3.2	4.9	6.6	8.5
27	− 9.8	− 8.1	− 6.2	−4.2	−2.1	+2.2	+ 4.6	+ 7.0	+ 9.5	+12.3
Nov. 6	12.8	10.4	8.0	5.5	2.8	2.9	6.0	9.1	12.5	16.0
16	15.6	12.7	9.7	6.7	3.4	3.6	7.3	11.2	15.3	19.6
26	17.9	14.7	11.2	7.7	3.9	4.1	8.4	13.1	17.9	22.9
Dez. 6	19.7	16.1	12.4	8.5	4.3	4.6	9.3	14.5	19.8	25.6
16	−20.7	−16.9	−13.0	−8.9	−4.5	+4.8	+ 9.8	+15.2	+20.9	+27.0
26	20.7	16.9	13.0	8.9	4.5	4.8	9.8	15.2	20.9	27.0
36	19.7	16.1	12.4	8.4	4.3	4.6	9.3	14.4	19.8	25.6

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite φ									
	+45°	+46°	+47°	+48°	+49°	+51°	+52°	+53°	+54°	+55°
h m	m	m	m	m	m	m	m	m	m	m
3 0	−37.4	−30.9	−23.9	−16.5	−8.6	+9.3	+19.4	+30.7	+43.3	+57.7
10	34.8	28.7	22.2	15.3	7.9	8.5	17.8	27.9	39.1	51.7
20	32.3	26.5	20.5	14.1	7.3	7.8	16.2	25.4	35.3	46.4
30	29.9	24.5	18.9	13.0	6.7	7.2	14.8	23.1	32.0	41.8
40	27.6	22.6	17.4	12.0	6.1	6.6	13.5	21.0	29.1	37.8
50	25.4	20.8	16.0	11.0	5.6	6.0	12.3	19.1	26.4	34.2
4 0	−23.3	−19.1	−14.6	−10.0	−5.1	+5.4	+11.2	+17.3	+23.9	+30.9
10	21.3	17.4	13.4	9.2	4.7	5.0	10.2	15.7	21.6	27.9
20	19.3	15.8	12.1	8.3	4.2	4.5	9.2	14.1	19.4	25.0
30	17.4	14.2	10.9	7.4	3.8	4.0	8.2	12.7	17.4	22.4
40	15.6	12.7	9.8	6.6	3.4	3.6	7.3	11.3	15.4	19.8
50	13.8	11.3	8.6	5.9	3.0	3.2	6.5	9.9	13.6	17.4
5 0	−12.0	− 9.8	− 7.5	− 5.1	−2.6	+2.7	+ 5.6	+ 8.6	+11.8	+15.2
10	10.3	8.4	6.5	4.4	2.2	2.4	4.8	7.4	10.1	12.9
20	8.6	7.0	5.4	3.7	1.9	2.0	4.0	6.2	8.4	10.8
30	7.0	5.7	4.4	3.0	1.5	1.6	3.2	5.0	6.8	8.7
40	5.4	4.4	3.3	2.3	1.1	1.2	2.5	3.8	5.2	6.6
50	3.7	3.0	2.3	1.6	0.8	0.8	1.7	2.6	3.6	4.6
6 0	− 2.1	− 1.7	− 1.3	− 0.9	−0.5	+0.5	+ 1.0	+ 1.5	+ 2.0	+ 2.6
10	− 0.5	− 0.4	− 0.3	− 0.2	−0.1	+0.1	+ 0.2	+ 0.4	+ 0.5	+ 0.6
20	+ 1.1	+ 0.9	+ 0.7	+ 0.5	+0.2	−0.2	− 0.5	− 0.8	− 1.1	− 1.4
30	2.7	2.2	1.7	1.2	0.6	0.6	1.3	1.9	2.6	3.4
40	4.4	3.5	2.7	1.9	1.0	1.0	2.0	3.1	4.2	5.4
50	6.0	4.9	3.7	2.5	1.3	1.4	2.7	4.3	5.8	7.4
7 0	+ 7.6	+ 6.2	+ 4.8	+ 3.2	+1.6	−1.7	− 3.5	− 5.4	− 7.4	− 9.5
10	9.3	7.6	5.9	4.0	2.0	2.1	4.3	6.6	9.0	11.6
20	11.1	9.0	6.9	4.7	2.4	2.5	5.1	7.8	10.7	13.8
30	12.7	10.4	7.9	5.4	2.8	2.9	5.9	9.1	12.4	16.0
40	14.5	11.9	9.1	6.2	3.2	3.3	6.8	10.4	14.3	18.3
50	16.4	13.3	10.2	7.0	3.6	3.7	7.7	11.8	16.2	20.8
8 0	+18.1	+14.8	+11.4	+ 7.8	+4.0	−4.2	− 8.6	−13.2	−18.1	−23.4
10	20.0	16.5	12.6	8.7	4.4	4.6	9.7	14.8	20.2	26.2
20	22.0	18.0	13.8	9.5	4.9	5.1	10.7	16.3	22.5	29.0
30	24.1	19.7	15.2	10.4	5.3	5.6	11.6	18.0	24.8	32.1
40	26.4	21.5	16.7	11.4	5.9	6.2	12.7	19.8	27.4	35.7
50	28.6	23.3	18.0	12.4	6.4	6.8	14.0	21.8	30.2	39.5
9 0	+30.8	+25.3	+19.5	+13.4	+6.9	−7.4	−15.3	−23.9	−33.2	−43.5

*) *t* ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Julianische Periode

I. Anzahl der am o. Januar seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am o. jedes Monats seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Julianische Periode

I. Anzahl der am 0. Januar seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1]) Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage

Ia. Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2]	31[2]	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern

[2]) In den Jahren 1700, 1800, 1900 um 1 zu vergrößern

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats im gregorianischen Kalender verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats im gregorianischen Kalender verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion ist zur mittl. Zeit zu addieren

Red.	0m	1m	2m	3m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion ist von der Sternzeit zu subtrahieren

	0^h	1^h	2^h	3^h	4^h	5^h		
m	d	d	d	d	d	d	s	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	.000694	.042361	.084028	.125694	.167361	.209028	1	.000012
2	.001389	.043056	.084722	.126389	.168056	.209722	2	.000023
3	.002083	.043750	.085417	.127083	.168750	.210417	3	.000035
4	.002778	.044444	.086111	.127778	.169444	.211111	4	.000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	.004167	.045833	.087500	.129167	.170833	.212500	6	.000069
7	.004861	.046528	.088194	.129861	.171528	.213194	7	.000081
8	.005556	.047222	.088889	.130556	.172222	.213889	8	.000093
9	.006250	.047917	.089583	.131250	.172917	.214583	9	.000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	.007639	.049306	.090972	.132639	.174306	.215972	11	.000127
12	.008333	.050000	.091667	.133333	.175000	.216667	12	.000139
13	.009028	.050694	.092361	.134028	.175694	.217361	13	.000150
14	.009722	.051389	.093056	.134722	.176389	.218056	14	.000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	.011111	.052778	.094444	.136111	.177778	.219444	16	.000185
17	.011806	.053472	.095139	.136806	.178472	.220139	17	.000197
18	.012500	.054167	.095833	.137500	.179167	.220833	18	.000208
19	.013194	.054861	.096528	.138194	.179861	.221528	19	.000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	.014583	.056250	.097917	.139583	.181250	.222917	21	.000243
22	.015278	.056944	.098611	.140278	.181944	.223611	22	.000255
23	.015972	.057639	.099306	.140972	.182639	.224306	23	.000266
24	.016667	.058333	.100000	.141667	.183333	.225000	24	.000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	.018056	.059722	.101389	.143056	.184722	.226389	26	.000301
27	.018750	.060417	.102083	.143750	.185417	.227083	27	.000313
28	.019444	.061111	.102778	.144444	.186111	.227778	28	.000324
29	.020139	.061806	.103472	.145139	.186806	.228472	29	.000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	.021528	.063194	.104861	.146528	.188194	.229861	31	.000359
32	.022222	.063889	.105556	.147222	.188889	.230556	32	.000370
33	.022917	.064583	.106250	.147917	.189583	.231250	33	.000382
34	.023611	.065278	.106944	.148611	.190278	.231944	34	.000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	.025000	.066667	.108333	.150000	.191667	.233333	36	.000417
37	.025694	.067361	.109028	.150694	.192361	.234028	37	.000428
38	.026389	.068056	.109722	.151389	.193056	.234722	38	.000440
39	.027083	.068750	.110417	.152083	.193750	.235417	39	.000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	.028472	.070139	.111806	.153472	.195139	.236806	41	.000475
42	.029167	.070833	.112500	.154167	.195833	.237500	42	.000486
43	.029861	.071528	.113194	.154861	.196528	.238194	43	.000498
44	.030556	.072222	.113889	.155556	.197222	.238889	44	.000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	.031944	.073611	.115278	.156944	.198611	.240278	46	.000532
47	.032639	.074306	.115972	.157639	.199306	.240972	47	.000544
48	.033333	.075000	.116667	.158333	.200000	.241667	48	.000556
49	.034028	.075694	.117361	.159028	.200694	.242361	49	.000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	.035417	.077083	.118750	.160417	.202083	.243750	51	.000590
52	.036111	.077778	.119444	.161111	.202778	.244444	52	.000602
53	.036806	.078472	.120139	.161806	.203472	.245139	53	.000613
54	.037500	.079167	.120833	.162500	.204167	.245833	54	.000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	.038889	.080556	.122222	.163889	.205556	.247222	56	.000648
57	.039583	.081250	.122917	.164583	.206250	.247917	57	.000660
58	.040278	.081944	.123611	.165278	.206944	.248611	58	.000671
59	.040972	.082639	.124306	.165972	.207639	.249306	59	.000683

m	6h	7h	8h	9h	10h	11h	s	d
	d	d	d	d	d	d		
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	.250694	.292361	.334028	.375694	.417361	.459028	1	.000012
2	.251389	.293056	.334722	.376389	.418056	.459722	2	.000023
3	.252083	.293750	.335417	.377083	.418750	.460417	3	.000035
4	.252778	.294444	.336111	.377778	.419444	.461111	4	.000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	.254167	.295833	.337500	.379167	.420833	.462500	6	.000069
7	.254861	.296528	.338194	.379861	.421528	.463194	7	.000081
8	.255556	.297222	.338889	.380556	.422222	.463889	8	.000093
9	.256250	.297917	.339583	.381250	.422917	.464583	9	.000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	.257639	.299306	.340972	.382639	.424306	.465972	11	.000127
12	.258333	.300000	.341667	.383333	.425000	.466667	12	.000139
13	.259028	.300694	.342361	.384028	.425694	.467361	13	.000150
14	.259722	.301389	.343056	.384722	.426389	.468056	14	.000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	.261111	.302778	.344444	.386111	.427778	.469444	16	.000185
17	.261806	.303472	.345139	.386806	.428472	.470139	17	.000197
18	.262500	.304167	.345833	.387500	.429167	.470833	18	.000208
19	.263194	.304861	.346528	.388194	.429861	.471528	19	.000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	.264583	.306250	.347917	.389583	.431250	.472917	21	.000243
22	.265278	.306944	.348611	.390278	.431944	.473611	22	.000255
23	.265972	.307639	.349306	.390972	.432639	.474306	23	.000266
24	.266667	.308333	.350000	.391667	.433333	.475000	24	.000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	.268056	.309722	.351389	.393056	.434722	.476389	26	.000301
27	.268750	.310417	.352083	.393750	.435417	.477083	27	.000313
28	.269444	.311111	.352778	.394444	.436111	.477778	28	.000324
29	.270139	.311806	.353472	.395139	.436806	.478472	29	.000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	.271528	.313194	.354861	[illegible]	.438194	.479861	31	.000359
32	.272222	.313889	.355556	.397222	.438889	.480556	32	.000370
33	.272917	.314583	.356250	.397917	.439583	.481250	33	.000382
34	.273611	.315278	.356944	.398611	.440278	.481944	34	.000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	.275000	.316667	.358333	.400000	.441667	.483333	36	.000417
37	.275694	.317361	.359028	.400694	.442361	.484028	37	.000428
38	.276389	.318056	.359722	.401389	.443056	.484722	38	.000440
39	.277083	.318750	.360417	.402083	.443750	.485417	39	.000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	.278472	.320139	.361806	.403472	.445139	.486806	41	.000475
42	.279167	.320833	.362500	.404167	.445833	.487500	42	.000486
43	.279861	.321528	.363194	.404861	.446528	.488194	43	.000498
44	.280556	.322222	.363889	.405556	.447222	.488889	44	.000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	.281944	.323611	.365278	.406944	.448611	.490278	46	.000532
47	.282639	.324306	.365972	.407639	.449306	.490972	47	.000544
48	.283333	.325000	.366667	.408333	.450000	.491667	48	.000556
49	.284028	.325694	.367361	.409028	.450694	.492361	49	.000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	.285417	.327083	.368750	.410417	.452083	.493750	51	.000590
52	.286111	.327778	.369444	.411111	.452778	.494444	52	.000602
53	.286806	.328472	.370139	.411806	.453472	.495139	53	.000613
54	.287500	.329167	.370833	.412500	.454167	.495833	54	.000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	.288889	.330556	.372222	.413889	.455556	.497222	56	.000648
57	.289583	.331250	.372917	.414583	.456250	.497917	57	.000660
58	.290278	.331944	.373611	.415278	.456944	.498611	58	.000671
59	.290972	.332639	.374306	.415972	.457639	.499306	59	.000683

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi ; \qquad \rho \cos \varphi' = c \cos \varphi$

φ	log *s*		log *c*		φ	log *s*		log *c*	
±0°	9.9970705	4	0.0000000	4	±40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	.9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
°	′		° ′	°	°	′		° ′	°
0	+0.0+	−0.0268+	−0 0.0+	180	45	+0.6+	−0.0189+	−1 5.2+	225
1	0.0	268	0 1.6	181	46	0.6	186	1 6.3	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.4	227
3	0.1	268	0 4.8	183	48	0.6	179	1 8.5	228
4	0.1	267	0 6.4	184	49	0.6	176	1 9.6	229
5	+0.1+	−0.0267+	−0 8.0+	185	50	+0.6+	−0.0172+	−1 10.6+	230
6	0.1	267	0 9.6	186	51	0.6	169	1 11.7	231
7	0.1	266	0 11.2	187	52	0.6	165	1 12.7	232
8	0.2	265	0 12.8	188	53	0.6	161	1 13.7	233
9	0.2	265	0 14.4	189	54	0.6	157	1 14.6	234
10	+0.2+	−0.0264+	−0 16.0+	190	55	+0.6+	−0.0154+	−1 15.5+	235
11	0.2	263	0 17.6	191	56	0.6	150	1 16.4	236
12	0.2	262	0 19.1	192	57	0.6	146	1 17.3	237
13	0.3	261	0 20.7	193	58	0.6	142	1 18.1	238
14	0.3	260	0 22.3	194	59	0.5	138	1 19.0	239
15	+0.3+	−0.0259+	−0 23.9+	195	60	+0.5+	−0.0134+	−1 19.8+	240
16	0.3	258	0 25.4	196	61	0.5	130	1 20.6	241
17	0.3	256	0 27.0	197	62	0.5	126	1 21.3	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.1	243
19	0.4	253	0 30.1	199	64	0.5	117	1 22.8	244
20	+0.4+	−0.0252+	−0 31.6+	200	65	+0.5+	−0.0113+	−1 23.5+	245
21	0.4	250	0 33.1	201	66	0.5	109	1 24.1	246
22	0.4	248	0 34.6	202	67	0.4	105	1 24.8	247
23	0.4	247	0 36.1	203	68	0.4	100	1 25.4	248
24	0.5	245	0 37.5	204	69	0.4	096	1 26.0	249
25	+0.5+	−0.0243+	−0 39.0+	205	70	+0.4+	−0.0092+	−1 26.5+	250
26	0.5	241	0 40.4	206	71	0.4	87	1 27.1	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.6	252
28	0.5	237	0 43.3	208	73	0.3	78	1 28.1	253
29	0.5	234	0 44.7	209	74	0.3	74	1 28.6	254
30	+0.5+	−0.0232+	−0 46.1+	210	75	+0.3+	−0.0069+	−1 29.0+	255
31	0.5	230	0 47.5	211	76	0.3	65	1 29.4	256
32	0.6	227	0 48.8	212	77	0.3	60	1 29.8	257
33	0.6	225	0 50.1	213	78	0.2	56	1 30.1	258
34	0.6	222	0 51.4	214	79	0.2	51	1 30.4	259
35	+0.6+	−0.0220+	−0 52.8+	215	80	+0.2+	−0.0047+	−1 30.7+	260
36	0.6	217	0 54.1	216	81	0.2	42	1 30.9	261
37	0.6	214	0 55.4	217	82	0.2	37	1 31.1	262
38	0.6	211	0 56.7	218	83	0.1	33	1 31.3	263
39	0.6	208	0 58.0	219	84	0.1	28	1 31.5	264
40	+0.6+	−0.0205+	−0 59.2+	220	85	+0.1+	−0.0023+	−1 31.7+	265
41	0.6	202	1 0.4	221	86	0.1	19	1 31.8	266
42	0.6	199	1 1.6	222	87	0.1	14	1 31.9	267
43	0.6	196	1 2.8	223	88	0.0	09	1 32.0	268
44	0.6	193	1 4.0	224	89	0.0	05	1 32.1	269
45	+0.6+	−0.0189+	−1 5.2+	225	90	+0.0+	−0.0000+	−1 32.1+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite
λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort
$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten (siehe Seite 71)

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
°	′		° ′	°	°	′		° ′	°
90	—0.0—	+0.0000—	—1 32.1+	270	135	—0.6—	+0.0189—	—1 5.2+	315
91	0.0	05	1 32.1	271	136	0.6	193	1 4.0	316
92	0.0	09	1 32.0	272	137	0.6	196	1 2.8	317
93	0.1	14	1 31.9	273	138	0.6	199	1 1.6	318
94	0.1	19	1 31.8	274	139	0.6	202	1 0.4	319
95	—0.1—	+0.0023—	—1 31.7+	275	140	—0.6—	+0.0205—	—0 59.2+	320
96	0.1	28	1 31.5	276	141	0.6	208	0 58.0	321
97	0.1	33	1 31.3	277	142	0.6	211	0 56.7	322
98	0.2	37	1 31.1	278	143	0.6	214	0 55.4	323
99	0.2	42	1 30.9	279	144	0.6	217	0 54.1	324
100	—0.2—	+0.0047—	—1 30.7+	280	145	—0.6—	+0.0220—	—0 52.8+	325
101	0.2	51	1 30.4	281	146	0.6	222	0 51.4	326
102	0.2	56	1 30.1	282	147	0.6	225	0 50.1	327
103	0.3	60	1 29.8	283	148	0.6	227	0 48.8	328
104	0.3	65	1 29.4	284	149	0.5	230	0 47.5	329
105	—0.3—	+0.0069—	—1 29.0+	285	150	—0.5—	+0.0232—	—0 46.1+	330
106	0.3	74	1 28.6	286	151	0.5	234	0 44.7	331
107	0.3	78	1 28.1	287	152	0.5	237	0 43.3	332
108	0.4	83	1 27.6	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.1	289	154	0.5	241	0 40.4	334
110	—0.4—	+0.0092—	—1 26.5+	290	155	—0.5—	+0.0243—	—0 39.0+	335
111	0.4	096	1 26.0	291	156	0.5	245	0 37.5	336
112	0.4	100	1 25.4	292	157	0.4	247	0 36.1	337
113	0.4	105	1 24.8	293	158	0.4	248	0 34.6	338
114	0.5	109	1 24.1	294	159	0.4	250	0 33.1	339
115	—0.5—	+0.0113—	—1 23.5+	295	160	—0.4—	+0.0252—	—0 31.6+	340
116	0.5	117	1 22.8	296	161	0.4	253	0 30.1	341
117	0.5	122	1 22.1	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.3	298	163	0.3	256	0 27.0	343
119	0.5	130	1 20.6	299	164	0.3	258	0 25.4	344
120	—0.5—	+0.0134—	—1 19.8+	300	165	—0.3—	+0.0259—	—0 23.9+	345
121	0.5	138	1 19.0	301	166	0.3	260	0 22.3	346
122	0.6	142	1 18.1	302	167	0.3	261	0 20.7	347
123	0.6	146	1 17.3	303	168	0.2	262	0 19.1	348
124	0.6	150	1 16.4	304	169	0.2	263	0 17.6	349
125	—0.6—	+0.0154—	—1 15.5+	305	170	—0.2—	+0.0264—	—0 16.0+	350
126	0.6	157	1 14.6	306	171	0.2	265	0 14.4	351
127	0.6	161	1 13.7	307	172	0.2	265	0 12.8	352
128	0.6	165	1 12.7	308	173	0.1	266	0 11.2	353
129	0.6	169	1 11.7	309	174	0.1	267	0 9.6	354
130	—0.6—	+0.0172—	—1 10.6+	310	175	—0.1—	+0.0267—	—0 8.0+	355
131	0.6	176	1 9.6	311	176	0.1	267	0 6.4	356
132	0.6	179	1 8.5	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.4	313	178	0.0	268	0 3.2	358
134	0.6	186	1 6.3	314	179	0.0	268	0 1.6	359
135	—0.6—	+0.0189—	—1 5.2+	315	180	—0.0—	+0.0268—	—0 0.0+	360

$$l' = \lambda + \Delta\lambda - a\,(B - \beta) - L_{☾}\,; \quad \beta' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten (siehe Seite 71)

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia	69	+43 22 52.2	+0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Åbo	—	+60 26 56.8	−1 29 6.30	−14.64	+60 16 58.8	9.998894
Adelaide	43	−34 55 38.5	−9 14 20.42	−91.06	−34 44 46.1	9.999526
Albany (N. Stw.)[1]	40	+42 39 12.6	+4 55 6.36	+48.48	+42 27 39.5	9.999334
Alfred Centre N.Y.	556	+42 15 19.8	+5 11 7.13	+51.11	+42 3 47.6	9.999379
Algier (N. Stw.)[2] .	342	+36 47 50	−0 12 8.38	− 1.99	+36 36 43	9.999501
Allegheny (N. Stw.)	370	+40 28 58.1	+5 20 5.39	+52.59	+40 17 31.4	9.999411
Allegheny (A. Stw.)	349	+40 27 41.6	+5 20 2.97	+52.58	+40 16 15.0	9.999411
Altenburg[3] . .	229	+50 58 20	−0 49 44.16	− 8.17	+50 46 59	9.999135
Altona Mer.-Kreis[4]	31	+53 32 45.3	−0 39 46.19	− 6.53	+53 21 39.7	9.999058
Amherst (Neue Stw.)	110	+42 21 56.5	+4 50 5.98	+47.66	+42 10 24.0	9.999346
Amherst (Alte Stw.)	122	+42 22 17.1	+4 50 4.72	+47.66	+42 10 44.6	9.999347
Annapolis	—	+38 58 53.5	+5 5 56.53	+50.26	+38 47 33.6	9.999424
Ann Arbor . . .	285	+42 16 48.0	+5 34 55.23	+55.02	+42 5 15.7	9.999360
Arcetri Zentr. d. St.[5]	186	+43 45 14.4	−0 45 1.30	− 7.39	+43 33 39.5	9.999316
Arequipa	2451	−16 22 28.0	+4 46 11.73	+47.02	−16 16 12.7	0.000052
Armagh	61	+54 21 12.7	+0 26 35.4	+ 4.37	+54 10 13.1	9.999041
Athen	107	+37 58 19.7	−1 34 52.92	−15.58	+37 47 5.4	9.999456
Bamberg (Remeis' St.)	299	+49 53 6.0	−0 43 33.57	− 7.15	+49 41 40.0	9.999167
Barcelona[6] . . .	420	+41 24 2	−0 8 35.1	− 1.41	+41 12 32	9.999392
Beloit	—	+42 30 9	+5 56 7.4	+58.51	+42 18 36	9.999335
Bergedorf Mer.-Kr.	35	+53 28 46.7	−0 40 57.74	− 6.73	+53 17 40.6	9.999060
Bergen	—	+60 23 54	−0 21 12.73	− 3.48	+60 13 55	9.998895
Berkeley	97	+37 52 23.6	+8 9 2.76	+80.34	+37 41 9.9	9.999458
Berlin Zentr. d. St.[7]	47	+52 30 16.7	−0 53 34.80	− 8.80	+52 19 4.2	9.999085
Berlin (Urania) . .	—	+52 31 30.7	−0 53 27.40	− 8.78	+52 20 18.3	9.999081
Bern	573	+46 57 8.7	−0 29 45.55	− 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	−0 23 57.1	− 3.93	+47 3 25.3	9.999236
Bethlehem[8] . .	—	+40 36 23.5	+5 1 31.94	+49.54	+40 24 56.3	9.999383
Birr Castle[9] . .	56	+53 5 47	+0 31 40.9	+ 5.20	+52 54 38	9.999070
Bogota	2700	+ 4 35 48	+4 56 59	+48.79	+ 4 33 57	0.000175
Bologna Zentr. d. Stw.	84	+44 29 52.8	−0 45 24.48	− 7.46	+44 18 17.3	9.999290
Bombay (Colaba) .	19	+18 53 36.2	−4 51 15.70	−47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Stw. .	62	+50 43 45.0	−0 28 23.18	− 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac)	73	+44 50 7.2	+0 2 5.50	+ 0.34	+44 38 31.6	9.999281
Boston (University)	—	+42 21 32.5	+4 44 15.0	+46.70	+42 10 0.0	9.999339

1) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, 7s.10 östlich. — 2) Alte Sternwarte 3′.8 südlich, 8s östlich. — 3) Fr. Krüger. — 4) 1873 nach Kiel verlegt. — 5) Seit Oktober 1872, früher in Florenz. — 6) J. Comas Solá. — 7) Seit 1835. Alte Sternwarte 56″.4 nördlich, 0s.39 westlich. Die provisorischen Koordinaten der neuen Sternwarte in Neubabelsberg sind:

$$\Delta l = +1^m\,9^s.4, \qquad \varphi = +52^\circ\,24'.4.$$

8) Sayre Observatory, auch South-Bethlehem. — 9) Earl of Rosse.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Bothkamp[1]	32	+54 12 9.6	− 0 40 31.2	− 6.65	+54 1 8.8	9.999042
Bremen (Olbers' Stw.) .	—	+53 4 36	− 0 35 15	− 5.79	+52 53 27	9.999067
Breslau Zentr. d. Stw. .	147	+51 6 56.5	− 1 8 8.72	− 11.19	+50 55 36.1	9.999126
Breteuil Zentr.[2] . .	66	+48 49 48	− 0 8 52.9	− 1.46	+48 38 18	9.999178
Brisbane	—	−27 28 0	−10 12 6.4	−100.55	−27 18 32	9.999691
Brüssel (Alte St.) Pass.Instr.	56	+50 51 10.7	− 0 17 28.71	− 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kreis	102	+50 47 55.5	− 0 17 26.06	− 2.86	+50 36 33.6	9.999131
Budapest[3]	110	+47 28 49	− 1 16 13.7	− 12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	− 1 44 27.01	− 17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	− 0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[4] .	24	+42 22 47.6	+ 4 44 31.02	+ 46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	16	−33 56 3.2	− 1 13 54.74	− 12.14	−33 45 19.6	9.999548
Catania	60	+37 30 13.3	− 1 0 20.6	− 9.91	+37 19 1.9	9.999465
Chapultepec (Alte Stw.)[5]	—	+19 25 17.5	+ 6 36 38.28	+ 65.16	+19 18 2.3	9.999840
Charkow	138	+50 0 10.2	− 2 24 54.6	− 23.81	+49 48 44.7	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	− 0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[6] . .	250	+38 2 1.2	+ 5 14 5.26	+ 51.60	+37 50 46.5	9.999464
Chicago (Alte Stw.)[7] .	—	+41 50 1.0	+ 5 50 26.82	+ 57.57	+41 38 29.8	9.999352
Christiania Mer.-Kreis .	25	+59 54 43.7	− 0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+ 5 37 59.09	+ 55.52	+38 55 6.0	9.999421
Cincinnati (Neue Stw.)[8]	263	+39 8 19.8	+ 5 37 41.33	+ 55.47	+38 56 59.1	9.999438
Cleveland (Case Obs.) .	212	+41 30 14.5	+ 5 26 25.86	+ 53.63	+41 18 44.3	9.999375
Clinton (Litchfield Obs.)	276	+43 3 16.5	+ 5 1 37.48	+ 49.55	+42 51 42.6	9.999340
Coimbra	99	+40 12 24.5	+ 0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[9] .	225	+38 56 51.7	+ 6 9 18.37	+ 60.67	+38 45 32.0	9.999440
Cordoba	439	−31 25 15.5	+ 4 16 48.2	+ 42.19	−31 14 57.5	9.999635
Danzig	3	+54 21 18.0	− 1 14 39.5	− 12.26	+54 10 18.4	9.999036
Denver[10]	1650	+39 40 36.4	+ 6 59 47.67	+ 68.96	+39 29 13.1	9.999519
Dorpat Mer.-Kreis . .	73	+58 22 47.1	− 1 46 53.23	− 17.56	+58 12 25.0	9.998946
Dresden (Neue Stw.)[11].	121	+51 2 16.8	− 0 54 54.74	− 9.02	+50 50 56.1	9.999126
Dresden (Mathem. Salon)	—	+51 3 14.7	− 0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+ 0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	− 0 27 2.69	− 4.44	+51 1 5.1	9.999117
Dunecht[12]	141	+57 9 36	+ 0 9 40	+ 1.59	+56 59 1	9.998979
Durham	107	+54 46 6.2	+ 0 6 19.7	+ 1.04	+54 35 9.8	9.999033
Edinburg	106	+55 57 23.2	+ 0 12 43.05	+ 2.09	+55 46 37.0	9.999005

[1]) Herr von Bülow. — [2]) Bureau international des Poids et Mesures. — [3]) Observ. der Kgl. ungar. Universität. — [4]) Harvard College Observatory. — [5]) 1883 nach Tacubaya verlegt. — [6]) Leander Mc. Cormick Obs. der University of Virginia. — [7]) 1887 geschlossen. — [8]) Mount Lookout, seit 1873. — [9]) Laws Observatory. — [10]) University Park, Chamberlin Observatory. — [11]) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14″.2 nördlich, 1s.57 westlich. — [12]) Earl of Crawford.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Edinburg (Blackf. Hill)	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Flagstaff (Lowell Obs.)	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[1]	73	+43 46 4.1	−0 45 1.30	− 7.40	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	—	+43 46 49.3	−0 45 2.52	− 7.40	+43 35 14.4	9.999303
Frankfurt a. M.	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 35	9.999149
Genf Mer.-Kreis	407	+46 11 59.1	−0 24 36.61	− 4.04	+46 0 23.9	9.999269
Genua (Mar. Stw.) Mer.-Kr.	105	+44 25 9.3	−0 35 41.28	− 5.86	+44 13 33.8	9.999293
Georgetown D. C.	46	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999429
Glasgow Schottl.	55	+55 52 42.6	+0 17 10.55	+ 2.82	+55 41 55.7	9.999003
Glasgow Missouri	228	+39 13 45.6	+6 11 18.06	+61.00	+39 2 24.5	9.999433
Göttingen Mer.-Kreis	161	+51 31 48.2	−0 39 46.22	− 6.53	+51 20 30.0	9.999117
Gohlis[2]	108	+51 21 35.0	−0 49 29.54	− 8.13	+51 10 15.9	9.999117
Gotha (Neue Stw.) Zentr. d. St.[3]	320	+50 56 37.5	−0 42 50.52	− 7.04	+50 45 16.3	9.999142
Graz	375	+47 4 37.2	−1 1 48	−10.15	+46 53 3.2	9.999244
Greenwich Transit Circle	47	+51 28 38.1	0 0 0.00	0.00	+51 17 19.6	9.999110
Grignon	—	+47 33 42	−0 17 38	− 2.89	+47 22 9	9.999206
Groningen	4	+53 13 19.1	−0 26 15.2	− 4.31	+53 2 11.3	9.999064
Hamburg (Alt. Stw.) M.-Kr.[4]	25	+53 33 6.0	−0 39 53.60	− 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte)	30	+53 32 51.8	−0 39 53.42	− 6.55	+53 21 46.2	9.999058
Hanover N. H.	183	+43 42 15.2	+4 49 8.00	+47.50	+43 30 40.4	9.999317
Harrow (Col. Tupmann)	66	+51 34 47.4	+0 1 19.9	+ 0.39	+51 23 29.5	9.999109
Hastings on Huds.[5]	—	+40 59 25	+4 55 29.7	+48.55	+40 47 56	9.999373
Haverford	—	+40 0 36.5	+5 1 12.79	+49.48	+39 49 11.8	9.999398
Heidelberg (Wolfs Stw.)	—	+49 24 35	−0 34 48.4	− 5.72	+49 13 7	9.999159
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	−0 34 53.13	− 5.73	+49 12 26.8	9.999198
St. Helena	210	−15 55 26	+0 22 52.2	+ 3.76	−15 49 20	9.999905
Helsingfors Mer.-Kreis	38	+60 9 42.6	−1 39 49.10	−16.40	+59 59 41.1	9.998903
Helwan	119	+29 51 33	−2 5 22	−20.59	+29 41 33	9.999648
Herény (von Gothard)	229	+47 15 47.4	−1 6 24.6	−10.91	+47 4 13.7	9.999229
Hongkong	34	+22 18 13.2	−7 36 41.9	−75.02	+22 10 5.8	9.999793
Hudson	—	+41 14 42.6	+5 25 44.19	+53.51	+41 3 13.2	9.999367
Ipswich (Orwell Park)[6]	—	+52 0 33	−0 4 55.8	− 0.81	+51 49 17	9.999094
Jena (Univers.) Zentr. d. St.	156	+50 55 35.6	−0 46 20.22	− 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	−0 46 20.73	− 7.61	+50 44 54.5	9.999132
Johannesburg	1806	−26 10 55.0	−1 52 18.00	−18.45	−26 1 45.2	9.999840

[1] 1872 nach Arcetri verlegt. — [2] Winkler, August 1887 nach Jena verlegt. — [3] Seit 1857, früher Seeberg. — [4] 1909 nach Bergedorf verlegt. — [5] Dr. Draper. — [6] Col. Tomline.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kairo	—	+30 4 38.2	—2 5 8.80	—20.56	+29 54 35.8	9.999635
Kalocsa[1]	110	+46 31 42	—1 15 54.2	—12.47	+46 20 7	9.999240
Karlsruhe[2]	110	+49 0 29.6	—0 33 35.40	— 5.52	+48 49 0.4	9.999177
Kasan (Univers.)	79	+55 47 24.3	—3 16 28.93	—32.28	+55 36 36.6	9.999007
Kasan (Engelhardt)	98	+55 50 20.0	—3 15 16.4	—32.08	+55 39 32.7	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47	9.999108
Kiel Neuer Mer.-Kreis	52	+54 20 27.6	—0 40 35.45	— 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kreis	47	+54 20 28.5	—0 40 35.57	— 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kreis	179	+50 27 12.5	—2 2 0.57	—20.04	+50 15 49.0	9.999145
Kis Kartal[3]	—	+47 41 54.8	—1 18 11.6	—12.84	+47 30 22.0	9.999202
Königsberg Reps. M.-Kr.[4]	22	+54 42 50.6	—1 21 58.98	—13.47	+54 31 53.8	9.999029
Kopenhagen (Neue Stw.)[5]	14	+55 41 12.6	—0 50 18.69	— 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania-St.)	10	+55 41 19.2	—0 50 9.11	— 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kreis	221	+50 3 51.9	—1 19 50.28	—13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	—0 56 31.58	— 9.28	+47 51 51.1	9.999219
Landstuhl (Fauth)	385	+49 24 42.5	—0 30 16.35	— 4.97	+49 13 14.7	9.999185
La Plata	12	—34 54 30	+3 51 37.1	+38.05	—34 43 38	9.999524
Leiden (Neue Stw.) Mer.-Kr.[6]	6	+52 9 20.2	—0 17 56.15	— 2.94	+51 58 5.6	9.999090
Leipzig (Neue Stw.) Zentr.[7]	119	+51 20 5.9	—0 49 33.93	— 8.14	+51 8 46.7	9.999119
Lemberg	338	+49 50 11	—1 36 4	—15.78	+49 38 45	9.999171
Leyton[8]	—	+51 34 34.0	+0 0 0.9	0.00	+51 23 16.1	9.999105
Lissabon (Tupada)	94	+38 42 30.5	+0 36 44.78	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Stw.)	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Stw.)[9]	61	+53 24 3.8	+0 12 17.2	+ 2.02	+53 12 57.2	9.999063
London[10]	—	+51 31 30	+0 0 37.1	+ 0.10	+51 20 12	9.999106
Lourenço Marques	59	—25 58 4.9	—2 10 22.63	—21.42	—25 48 58.3	9.999725
Lübeck (Navig.-Sch.)	19	+53 51 31.1	—0 42 45.6	— 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Stw.	34	+55 41 52.0	—0 52 44.97	— 8.66	+55 31 3.5	9.999006
Lussinpiccolo[11]	42	+44 32 11	—0 57 52.3	— 9.50	+44 20 35	9.999286
Lüttich Ougrée	128	+50 37 6	—0 22 12	— 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	—0 19 8.0	— 3.14	+45 30 5.3	9.999274
Madison (Washburn Obs.)	293	+43 4 36.7	+5 57 37.90	+58.75	+42 53 2.8	9.999340
Madras	7	+13 4 8.1	—5 20 59.33	—52.73	+12 59 2.6	9.999926
Madrid Zentr. d. Stw.	655	+40 24 29.7	+0 14 45.09	+ 2.43	+40 13 3.3	9.999433
Mailand Gr. Turm	120	+45 27 59.4	—0 36 45.89	— 6.04	+45 16 23.8	9.999268
Manila	3	+14 35 25	—8 3 50	—79.48	+14 29 47	9.999908

[1]) Erzbischöfl. Haynaldsche Sternwarte. — [2]) 1896 nach Heidelberg verlegt. — [3]) Baron von Podmaniczky. — [4]) Nach 1898, vor 1898 0s.01 westlich. — [5]) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0s.03 westlich. — [6]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0s.42 östlich. — [7]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4s.00 westlich. — [8]) J. Gurney Barclay. — [9]) Alte Sternwarte 44″.0 nördlich, 17s.1 östlich. — [10]) Regents Park, G. Bishop 1836—61. — [11]) Manora-Sternwarte.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Mannheim Zentr. d. Stw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif. .	18	+38 5 55.8	+8 9 5.59	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper) .	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (N. St.) M.-Kr.[1])	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
Melbourne	28	−37 49 53.1	−9 39 54.17	−95.26	−37 38 39.6	9.999454
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Mexico	2277	+19 26 1.3	+6 36 26.71	+65.13	+19 18 45.9	9.999995
Middletown Conn. .	—	+41 33 16.0	+4 50 37.2	+47.74	+41 21 45.7	9.999359
Modena	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Moncalieri	—	+44 59 51	−0 30 49	− 5.06	+44 48 15	9.999272
Montreal	20	+45 30 17.0	+4 54 18.65	+48.35	+45 18 41.4	9.999260
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+8 6 34.85	+79.94	+37 9 15.2	9.999552
Mt. Wilson Calif. . .	1731	+34 12 59.5	+7 52 14.33	+77.47	+34 2 13.3	9.999658
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[2]) . . .	—	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München West-Kuppel	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Nashville (Vanderbilt Obs.)	—	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999494
Natal	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Neapel (Capo di M.) . .	164	+40 51 45.4	−0 57 1.6	− 9.37	+40 40 17.3	9.999388
Neuchâtel	488	+46 59 50.6	−0 27 49.75	− 4.57	+46 48 16.5	9.999254
New Haven (Neue Stw.)[3])	40	+41 19 22.3	+4 51 40.53	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd)	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. C.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew	55	+46 58 22.1	−2 7 53.76	−21.01	+46 46 47.9	9.999225
Nizza Kl. Mer.-Kr.[4]) . .	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	286	+44 27 41.6	+6 12 36.0	+61.21	+44 16 6.1	9.999305
Oakland Californ.[5]) .	11	+37 48 5	+8 9 6.3	+80.35	+37 36 52	9.999454
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Ogden Utah	—	+41 13 8.6	+7 27 59.65	+73.60	+41 1 39.3	9.999368
O-Gyalla (Neue Stw.)[6])	113	+47 52 27.3	−1 12 45.49	−11.95	+47 40 54.9	9.999206
Olmütz[7])	—	+49 35 43	−1 9 8	−11.35	+49 24 16	9.999154
Ottawa	84	+45 23 37.3	+5 2 51.93	+49.75	+45 12 1.7	9.999267
Oxford (Radcl. Obs.) . .	65	+51 45 35.4	+0 5 2.6	+ 0.83	+51 34 18.5	9.999104
Oxford (Univers.) . . .	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104

[1]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6s.2 westlich; 29m. — [2]) Dr. Max Mündler. — [3]) Yale University. Alte Sternwarte 45″.8 südlich, 1s.58 westlich. — [4]) Herr R. Bischofsheim. — [5]) Chabot Observatory. — [6]) Dr. von Konkoly. — [7]) Herr von Unkrechtsberg.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Oxford Mississippi .	—	+34 22 12.6	+ 5 58 7.1	+58.83	+34 11 25.1	9.999536
Padua Mauer-Quadr. . .	31	+45 24 1.0	— 0 47 29.15	— 7.80	+45 12 25.4	9.999263
Palermo	76	+38 6 44.0	— 0 53 25.80	— 8.78	+37 55 28.9	9.999451
Paramatta	—	—33 48 49.8	—10 4 0.2	—99.22	—33 38 7.3	9.999550
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	— 0 9 20.94	— 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	— 0 9 20.70	— 1.53	+48 37 48.2	9.999174
Parma (Univ.-Stw.) Turm.	—	+44 48 4.7	— 0 41 18.79	— 6.39	+44 36 29.1	9.999277
Perth West.-Austr. . .	60	—31 57 9.6	— 7 43 21.74	—76.12	—31 46 45.8	9.999597
Petersburg (Akademie)	20	+59 56 29.7	— 2 1 13.35	—19.91	+59 46 25.5	9.998907
Petersburg (Univers.) .	4	+59 56 32.0	— 2 1 11.3	—19.91	+59 46 27.8	9.998906
Philadelphia (Alte Stw.)	—	+39 57 7.5	+ 5 0 38.49	+49.39	+39 45 43.0	9.999400
Philadelphia[1]) . . .	74	+39 58 2.1	+ 5 1 6.6	+49.47	+39 46 37.5	9.999404
Plonsk [2])	—	+52 37 40.0	— 1 21 31.9	—13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	— 0 55 22.96	— 9.10	+44 40 12.9	9.999277
Portsmouth	—	+50 48 3	+ 0 4 24.8	+ 0.73	+50 36 41	9.999124
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	— 0 52 15.86	— 8.58	+52 11 42.7	9.999091
Potsdam (Geod. Inst.) Turm	97	+52 22 54.8	— 0 52 16.12	— 8.58	+52 11 41.5	9.999091
Poughkeepsie[3]) . . .	46	+41 41 18	+ 4 55 33.6	+48.56	+41 29 47	9.999359
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	— 0 57 40.29	— 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	— 0 57 48	— 9.49	+49 52 59	9.999142
Princeton N. J. (N. Stw.)[4])	76	+40 20 55.8	+ 4 58 39.53	+49.06	+40 9 29.7	9.999395
Providence[5])	64	+41 49 46.4	+ 4 45 37.62	+46.92	+41 38 15.2	9.999356
Pulkowa Zentr. d. Stw.	75	+59 46 18.7	— 2 1 18.58	—19.93	+59 36 12.5	9.998914
Quebec Canada . . .	94	+46 48 17.3	+ 4 44 49.4	+46.79	+46 36 42.9	9.999232
Quito	2846	— 0 14 0	+ 5 15 20	+51.80	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 1 36 28.11	—15.84	+56 46 30	9.998974
Rio de Janeiro . . .	63	—22 54 23.7	+ 2 52 41.52	+28.37	—22 46 6.0	9.999784
Rochester (Lewis Swift)	172	+43 9 16.8	+ 5 10 21.87	+50.98	+42 57 42.7	9.999330
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	— 0 49 55.36	— 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr.	63	+41 53 33.5	— 0 49 56.34	— 8.20	+41 42 2.2	9.999355
Rom (Vatican) Mer.-Kr.	100	+41 54 16.8	— 0 49 49.28	— 8.18	+41 42 45.5	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	117	+52 22 7	+ 0 5 2.0	+ 0.83	+52 10 54	9.999093
St. Louis Missouri . .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
San Fernando . . .	31	+36 27 40.4	+ 0 24 49.37	+ 4.08	+36 16 36.1	9.999488
San Francisco[6]) . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453

[1]) Flower Obs. (Univ. of Pennsylvania). — [2]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [3]) Vassar College. — [4]) Alte Sternwarte 2″.0 nördlich, $1^s.94$ östlich; 65^m. — [5]) Seagrave; Ladd Observatory 35″ nördlich, $1^s.57$ östlich. — [6]) Davidson Observatory.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Santiago de Chile (N. St.)	519	−33 26 42.0	+ 4 42 46.4	+46.44	−33 16 3.0	9.999594
Santiago de Chile (A. St.)	619	−33 26 25.4	+ 4 42 36.9	+46.42	−33 15 46.4	9.999600
Scarborough	—	+54 16 30	+ 0 1 38.9	+ 0.27	+54 5 30	9.999038
Schwerin	—	+53 37 37.9	− 0 45 40.80	− 7.50	+53 26 32.9	9.999054
Seeberg[1])	356	+50 56 5.2	− 0 42 55.10	− 7.05	+50 44 44.0	9.999145
Sétif	1113	+36 11 19	− 0 21 38.3	− 3.55	+36 0 17	9.999569
South Hadley	76	+42 15 18.2	+ 4 50 20.38	+47.70	+42 3 45.9	9.999346
Speyer	—	+49 18 55.2	− 0 33 45.51	− 5.54	+49 7 27.1	9.999161
Stockholm Mer.-Kreis .	44	+59 20 32.6	− 1 12 13.97	−11.86	+59 10 21.3	9.998922
Stonyhurst.	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (Prov. Stw.) .	161	+48 34 54.0	− 0 31 2.37	− 5.10	+48 23 23.5	9.999191
Straßburg (N.St.). M.-Kr.[2])	144	+48 35 0.4	− 0 31 4.53	− 5.10	+48 23 29.9	9.999190
Sydney	44	−33 51 41.1	−10 4 49.60	−99.35	−33 40 58.2	9.999551
Tacubaya[3])	2322	+19 24 17.5	+ 6 36 46.53	+65.18	+19 17 2.6	9.999998
Taschkent	457	+41 19 31.3	− 4 37 10.69	−45.53	+41 8 1.7	9.999396
Taunton Mass. (Metcalf) .	8	+41 54	+ 4 44 20	+46.71	+41 42	9.999351
Teramo (Cerulli)	398	+42 39 27	− 0 54 56	− 9.02	+42 27 54	9.999358
Tokio	—	+35 39 17.5	− 9 18 58.0	−91.82	+35 28 19.2	9.999506
Toronto	108	+43 39 35.9	+ 5 17 34.69	+52.17	+43 28 1.1	9.999313
Tortosa (Ebro-Stw.) M.-Kr.	—	+40 49 14	− 0 1 58.5	− 0.32	+40 37 46	9.999378
Toulouse	194	+43 36 45.3	− 0 5 51.0	− 0.96	+43 25 10.6	9.999320
Triest	23	+45 38 45.4	− 0 55 2.90	− 9.04	+45 27 9.9	9.999256
Troy N. Y.	—	+42 43 52.9	+ 4 54 44.6	+48.42	+42 32 19.6	9.999329
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	− 8 1 16.21	−79.06	+35 53 9.8	9.999496
Tulse Hill (W. Huggins) .	53	+51 26 47.0	+ 0 0 27.7	+ 0.08	+51 15 28.4	9.999111
Turin Mer.-Kr.	276	+45 4 7.9	− 0 30 47.15	− 5.06	+44 52 32.2	9.999288
Twickenham (G. Bishop)	—	+51 27 4.2	+ 0 1 13.1	+ 0.20	+51 15 45.6	9.999108
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	− 1 10 30.13	−11.58	+59 41 24.2	9.998909
Urbana Jll.	236	+40 6 20.2	+ 5 52 53.97	+57.97	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	− 0 20 31.6	− 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	—	+50 52 29.3	− 0 23 19.91	− 3.83	+50 41 7.8	9.999122
Venedig	15	+45 26 10.5	− 0 49 22.12	− 8.11	+45 14 34.9	9.999261
Warschau[4]) Zentr. d. Stw.	110	+52 13 4.6	− 1 24 7.25	−13.82	+52 1 50.3	9.999096
Warschau[5])	—	+52 13 10	− 1 24 5	−13.81	+52 1 56	9.999088
Washington (Alte Stw.)	31	+38 53 38.9	+ 5 8 12.13	+50.63	+38 42 19.4	9.999428
Washington (Neue Stw.)	82	+38 55 14.0	+ 5 8 15.80	+50.64	+38 43 54.4	9.999431

[1]) Alte Sternwarte, 1857 nach Gotha verlegt. — [2]) Seit Anfang 1881. — [3]) Seit März 1883, früher in Chapultepec. — [4]) Universitäts-Sternwarte. — [5]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Washington (Kath. Univ.) .	— m	+38° 56′ 14″.8	+ 5h 8m 0s.0	+ 50s.60	+38° 44′ 55″.1	9.999425
Wellington Transit Instr.[1])	127	−41 17 3.8	−11 39 4.27	−114.84	−41 5 34.3	9.999375
Wellington (Mt. Cook Obs.)[2])	44	−41 16 47.1	−11 39 5.31	−114.84	−41 5 17.6	9.999369
West Point N.Y. (N. Stw.)[3])	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Whitestone (Field Obs.) .	—	+40 47 21.6	+ 4 55 7.7	+ 48.48	+40 35 53.8	9.999379
Wien (Alte Sternw.)	167	+48 12 35.5	− 1 5 31.61	− 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[4]) . . .	214	+48 12 53.8	− 1 5 25.17	− 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr. .	240	+48 13 55.4	− 1 5 21.36	− 10.73	+48 2 23.9	9.999205
Wien (Ottakring)[5])	285	+48 12 46.7	− 1 5 10.97	− 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) . .	—	+48 12 40.0	− 1 5 26.25	− 10.75	+48 1 8.4	9.999189
Wien (Techn. Hochschule) .	—	+48 11 58.5	− 1 5 29.71	− 10.76	+48 0 26.9	9.999190
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	− 0 32 35.06	− 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[6]) .	335	+42 34 12.6	+ 5 54 13.28	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass. . .	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Williamstown Vict. . .	—	−37 52 7.2	− 9 39 38.1	− 95.22	−37 40 53.5	9.999451
Wilna Pass.-Instr.	122	+54 40 59.1	− 1 41 8.76	− 16.61	+54 30 2.1	9.999036
Windsor N. S. W.[7]) . .	16	−33 36 30.8	−10 3 20.77	− 99.11	−33 25 50.2	9.999556
Zô-sè China	100	+31 5 48	− 8 4 44.80	− 79.63	+30 55 34	9.999619
Zürich Meridian-Kreis . .	468	+47 22 38.3	− 0 34 12.3	− 5.62	+47 11 4.8	9.999242

[1]) Hector Observatory. — [2]) 1884 abgebrochen. — [3]) Seit 1883. Alte Sternwarte 9″ nördlich, 1s.2 östlich. — [4]) von Oppolzers Sternwarte. — [5]) v. Kuffner. — [6]) Yerkes Observatory. — [7]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Grundbegriffe der Sphärischen Astronomie

von F. Cohn und J. Peters.

Die Bewegung der Himmelskörper wird durch die Angabe ihrer Örter und der Zeitmomente, in welchen sie diese Örter einnehmen, numerisch festgelegt.

Den Ort eines Himmelskörpers fixiert man durch seine räumlichen (polaren oder rechtwinkligen) Koordinaten. Da die Beobachtung indessen direkt nur die Richtung angeben kann, in der das Gestirn dem Beobachter erscheint, sind zunächst die *sphärischen* Koordinaten einer solchen Richtung zu definieren. Ein sphärisches Koordinatensystem, d. h. eine Orientierung auf einer Kugelfläche, wird begründet auf einen Punkt der Sphäre als *Polpunkt* und einen zweiten Punkt als *Leitpunkt*. Der Polpunkt definiert zugleich die *Achse*, den Gegenpol und den *Äquator* des Systems. Die eine sphärische Koordinate ist die *Poldistanz* oder die diese zu 90° ergänzende *Äquatordistanz*. Der Leitpunkt gibt in dem durch ihn und den Polpunkt gelegten größten Kreis den *Nullkreis* für die Zählung der zweiten Koordinate, des Winkels zwischen dem Nullkreis und dem durch Polpunkt und Objekt gelegten größten Kreis [1]). Man nennt Polpunkt und Leitpunkt oder Äquator und Nullkreis die *Elemente* des sphärischen Koordinatensystems. — Die gelegentlich für die Rechnung erforderlichen rechtwinkligen Koordinaten werden auf ein System bezogen, dessen z-Achse mit der Achse des sphärischen Systems zusammenfällt, während die x-Achse nach dem Nullpunkt im Äquator zeigt, und die y-Achse senkrecht dazu (im Sinne der wachsenden zweiten sphärischen Koordinate) gerichtet ist.

Die Zeit wird durch einen Bewegungsvorgang der Messung zugänglich, dessen Verlauf nach gewissen theoretischen Grundlagen genau verfolgt, und dessen jedesmalige Phase genau beobachtet werden kann; die Messung eines Zeitintervalls ist auf die Messung der zurückgelegten Strecke oder des zurückgelegten Winkels zurückgeführt. Am besten eignet sich dazu ein mit konstanter Geschwindigkeit periodisch verlaufender Bewegungsvorgang, dessen Periode die Zeiteinheit, dessen Phase den Zeitmoment gibt.

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[1]) Genauer gesagt: des Winkels zwischen den beiden Halbkreisen von Pol zu Gegenpol, die den Leitpunkt, resp. das Objekt enthalten.

I. Definition der astronomischen Koordinaten eines Punkts der Sphäre.

Die Grundlage (Polpunkt und Äquator) der gebräuchlichen sphärischen Koordinatensysteme der Astronomie bilden:

1. *Zenit* und *Horizont*, definiert durch die Richtung der *Schwerkraft*[1]).
2. *Himmelspol*[2]) und *Himmelsäquator*, definiert durch die Richtung der *Erdachse*.
3. *Pol der Ekliptik* und *Ekliptik*, definiert durch die *Ebene der Erdbahn*.

Zenit und Himmelspol bestimmen in dem durch sie gelegten größten Kreise den *Meridian* des Erdorts und damit die Nord-Südrichtung. Die Ebene des Meridians enthält demnach die Lotlinie des Erdorts und eine Parallele zur Erdachse. Der Winkel zwischen Zenit und Himmelspol ist das Komplement der geographischen Breite oder der Polhöhe, $= 90^0 - \varphi$. Der durch den Zenitpunkt senkrecht zum Meridian gelegte größte Kreis heißt der *erste Vertikal*, er schneidet den Horizont in dem Ost- und dem Westpunkte.

Äquator und Ekliptik schneiden sich in den beiden Äquinoktialpunkten, dem *Frühlingspunkt*, ♈, in welchem die Sonne zur Zeit des Frühlingsäquinoktiums den Äquator schneidet, und dem *Herbstpunkt*; den Winkel, unter dem sie sich schneiden, bezeichnet man als *Schiefe der Ekliptik*, ε.

Den drei Elementen entsprechen folgende

sphärische Koordinatensysteme:

(charakterisiert durch Pol- und Leitpunkt oder Äquator und Nullkreis).

1. Das System des ***Zenits*** (Polpunkt; der Gegenpol heißt *Nadir*) und des ***Himmelspols*** (Leitpunkt) oder des ***Horizonts*** und des ***Meridians*** definiert als Koordinaten:

   die ***Zenitdistanz***, z, vom Zenit zum Nadir von 0^0 bis 180^0 gezählt, oder die *Höhe*, h, vom Horizont zum Zenit positiv, zum Nadir negativ, von 0^0 bis 90^0 gezählt; demnach $z + h = 90^0$;

   das ***Azimut***, a, vom Südpunkt des Horizonts über Westen von 0^0 bis 360^0 gezählt[3]).

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[1]) Unter »Richtung der Schwerkraft« wird die Richtung der *Lotlinie* verstanden, wie sie der vereinigten Wirkung der reinen Massenanziehung und der Zentrifugalkraft entspringt und durch ein freihängendes Lot angezeigt wird.

[2]) Unter Himmelspol wird stets der Nordpol verstanden.

[3]) Bei dieser in der Astronomie üblichen Zählweise des Azimuts ist nicht eigentlich der Nordpol, sondern der Südpol der Leitpunkt des Systems, indem der Nordpol das Azimut 180^0 besitzt.

2. Das System des *Himmelspols* (Polpunkt) und

a) des *Zenits* (Leitpunkt) oder des *Himmelsäquators* und des *Meridians* definiert als Koordinaten:

die *Poldistanz*, vom Nordpol zum Südpol von 0^0 bis 180^0 gezählt oder ihr Komplement, die *Deklination*, δ, vom Äquator nach Norden positiv, nach Süden negativ, von 0^0 bis 90^0 gezählt;

den *Stundenwinkel*, t, vom sichtbaren Schnittpunkt des Äquators und des Meridians im Sinne der scheinbaren täglichen Bewegung der Gestirne von 0^0 bis 360^0 oder 0^h bis 24^h gezählt.

Im Meridian ist demnach sowohl Azimut wie Stundenwinkel $= 0^0$ oder 180^0.

b) des *Frühlingspunkts* (Leitpunkt) oder des *Himmelsäquators* und des größten Kreises durch Himmelspol und Frühlingspunkt definiert als *äquatoriale* Koordinaten:

die *Poldistanz* oder ihr Komplement, die *Deklination* (s. unter 2a);

die *Rektaszension*, *AR.* oder α, vom Frühlingspunkt entgegen der Richtung der scheinbaren täglichen Bewegung von 0^0 bis 360^0 oder 0^h bis 24^h gezählt.

Der Pol der Ekliptik hat die Rektaszension 270^0.

3. Das System des *Pols der Ekliptik* (Polpunkt) und des *Frühlingspunkts* (Leitpunkt) oder der *Ekliptik* und des größten Kreises durch Pol der Ekliptik und Frühlingspunkt definiert als *ekliptikale* Koordinaten:

die *Breite*[1]), β, entsprechend δ gezählt;

die *Länge*, λ, entsprechend α gezählt.

Der Himmelspol hat die Länge 90^0.

Die Übergangsformeln von System 1 in 2a, 2b in 3, und umgekehrt vermitteln die jeweils aus den Polen der beiden Systeme und dem Objekt gebildeten sphärischen Dreiecke; auch können sie aus den einfachen Formeln der rechtwinkligen Koordinatentransformation in der Ebene erhalten werden, da System 1 und 2a durch Drehung um die gemeinsame y-Achse (Ost-Westrichtung) um den Winkel $90^0 - \varphi$, System 2b und 3 durch Drehung um die gemeinsame x-Achse (Richtung nach dem Frühlingspunkt) um den Winkel ε ineinander übergehen. System 2a und 2b haben die z-Achse (Richtung nach dem Himmelspol) und damit die erste Koordinate δ gemeinsam, sie unterscheiden sich nur durch den Nullpunkt und die Zählungsrichtung der 2ten Koordinate, man hat daher für jeden Punkt der Sphäre die einfache Beziehung:

$$t + \alpha = t_{\Upsilon}.$$

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1) Im ekliptikalen System ist ein besonderer Name für den Polabstand nicht üblich.

Das fundamentale Koordinatensystem der praktischen Astronomie ist das System 2b, das der *äquatorialen Koordinaten*, *Rektaszension* und *Deklination*, beruhend auf der Richtung der *Erdachse* und der Lage der *Ekliptik*.

Die Verlagerungen von Ekliptik und Erdachse.

Die Elemente des fundamentalen äquatorialen Koordinatensystems, Erdachse und Ekliptik, erleiden im Laufe der Zeit Verlagerungen, welche die auf dieses System bezogenen Koordinaten beeinflussen und in Rechnung gezogen werden müssen, wenn aus den Änderungen der Koordinaten auf die tatsächliche Ortsveränderung des Gestirns geschlossen werden soll.

Die Ekliptik. Der Erdschwerpunkt bewegt sich nicht genau in einer Ebene, sondern wird durch die Anziehung der Planeten und des Mondes aus seiner Bahn, die bei alleinigem Wirken der Sonne eine ebene sein würde, abgelenkt. Bei der Geringfügigkeit dieser Einflüsse spricht man auch fernerhin von der Ebene der Erdbahn, die nun aber im Raume nicht völlig fest ist, sondern Verlagerungen teils säkularer, teils periodischer Natur erleidet. Die periodischen Glieder sondert man aus diesen Schwankungen ab und versteht, sobald man die Ekliptik als Fundamentalebene des astronomischen Koordinatensystems, d. h. zur Definition des Frühlingspunkts einführt, nunmehr unter *Ekliptik* die von den periodischen Schwankungen befreite, d. h. nur säkular bewegte mittlere Ebene der Erdbahn. Die periodischen Schwankungen der wahren Erdbahn äußern sich dann darin, daß die Sonne nicht stets genau in dieser *mittleren Ekliptik* steht, sondern eine kleine Breite bis $\pm 1''$ annehmen kann. Den numerischen Betrag der Verlagerungen der Ekliptik liefert die Theorie der säkularen Störungen der Planetenbahnen.

Die Erdachse. Die Rotationsachse der Erde führt im Raume, und damit der Himmelspol auf der Sphäre, unter dem Einfluss von Sonne und Mond die Präzessions- und Nutationsbewegung aus. Mit dem Namen *Präzession* bezeichnet man die langperiodische Umlaufsbewegung des Himmelspols um den Pol der Ekliptik, mit dem Namen *Nutation* die kurzperiodischen Schwankungen um diese Mittellage. Oder genauer: Die Theorie der Erdrotation stellt die räumliche Bewegung der Erdachse unter dem Einfluß jener störenden Kräfte durch Reihenentwicklungen dar, deren säkulare Glieder die Präzession, deren periodische Glieder die Nutation heißen.

Die Verlagerungen von Ekliptik und Erdachse beeinflussen auch die Lage des Frühlingspunkts und die Schiefe der Ekliptik. Die augenblickliche Lage dieser Elemente (Pol, Äquator, Frühlingspunkt) bezeichnet man als ihre *wahre* Lage in dem betreffenden Moment. Im Gegensatz dazu nennt man *mittleren Pol* und *mittleren Äquator* die allein

durch die Präzession beeinflußte Lage von Pol und Äquator, *mittleren Frühlingspunkt* den Schnittpunkt dieses mittleren Äquators und der mittleren Ekliptik, *mittlere Schiefe der Ekliptik* den Winkel zwischen mittlerem Äquator und mittlerer Ekliptik. Von den mittleren Werten geht man sonach durch Anbringen des Nutationseffekts zu den wahren Werten über.

Numerisches zur Verlagerung der Fundamentalebenen.

a) Präzession.

Wir stellen die zur Fixierung der Verlagerungen von Ekliptik und Erdachse von dem Zeitpunkt $t_1 = 1850.0 + \tau$ bis zum Zeitpunkt $t_2 = 1850.0 + \tau + T$ (τ und T in tropischen Jahrhunderten, s. später, gezählt) erforderlichen Daten zusammen, und zwar in der Form von Reihenentwicklungen nach Potenzen der Zwischenzeit $T = t_2 - t_1$. Dabei legen wir die Lage der Grundebene (Ekliptik oder mittlerer Äquator) E_2 der Zeit t_2 gegen ihre Lage E_1 zur Zeit t_1 durch die Angabe des Neigungswinkels beider Ebenen und des Abstandes $\Upsilon_1 \Omega$, $\Upsilon_2 \Omega$ des aufsteigenden Knotens Ω von E_2 auf E_1 von dem mittleren Frühlingspunkte Υ_1 oder Υ_2 der Zeit t_1 resp. t_2 fest:

	Neigung	$\Upsilon_1 \Omega$	$\Upsilon_2 \Omega$
Ekliptik	(π)	(Π)	$(\Pi) + (\psi)$
Äquator	(n)	(N)	$(N) + (m)$;

(ψ) wird als »*allgemeine Präzession in Länge*«, (m) als »*allgemeine Präzession in Rektaszension*« bezeichnet.

Die numerischen Werte sind nach Newcomb (vgl. H. Andoyer, Les formules de la précession d'après S. Newcomb. Bull. Astr. 28, 67—76):

$$(\pi) = (47''.14 - 0''.07\,\tau)\,T - 0''.03\,T^2$$
$$(\Pi) = 173^0\,29'\,40'' + 3286''\,\tau + 1''\,\tau^2 - (869'' + 1''\,\tau)\,T$$
$$(\psi) = (5024''.53 + 2''.22\,\tau)\,T + 1''.11\,T^2$$

$$(n) = (2005''.11 - 0''.85\,\tau)\,T - 0''.43\,T^2 - 0''.04\,T^3$$
$$(N) = 90^0 - (2303''.55 + 1''.40\,\tau)\,T - 0''.30\,T^2 - 0''.02\,T^3$$
$$(m) = (4607''.11 + 2''.79\,\tau)\,T + 1''.40\,T^2 + 0''.04\,T^3.$$

Daraus folgen als jährliche Änderungen zur Zeit t_1 (die Koeffizienten von $100\,T$)

$$\pi = 0''.4714 - 0''.000007\,t$$
$$\psi = 50''.2453 + 0''.000222\,t$$
$$n = 20''.0511 - 0''.000085\,t$$
$$m = 46''.0711 + 0''.000279\,t,$$

worin nun t die Zeit seit 1850.0 in Einheiten des tropischen Jahres bezeichnet; ferner

$$n' = \frac{dn}{dt} = -0''.000085; \quad m = \frac{dm}{dt} = +0''.000279.$$

Ferner ist die mittlere Schiefe der Ekliptik zur Zeit $t_1 = 1850.0 + \tau$:

$$\varepsilon = 23^0\,27'\,31''.68 - 46''.84\,\tau - 0''.01\,\tau^2$$

Für alle Zwecke der Praxis genügen diese Angaben; doch fügen wir hier der Vollständigkeit halber in üblicher Art noch die Werte hinzu, welche die beiden Systeme (Ekliptik und Äquator) miteinander verbinden:

Die Lunisolarpräzession (d. i. das Stück, welches die beiden Äquatoren der Zeit t_1 und t_2 auf der Ekliptik der Zeit t_1 herausschneiden):

$$(\psi_1) = (5036''.84 + 0''.49\,\tau)\,T - 1''.07\,T^2.$$

Die lunisolare Schiefe (d. i. der Winkel zwischen dem Äquator der Zeit t_2 und der Ekliptik der Zeit t_1):

$$(\varepsilon_1) = 23^0\,27'\,31''.68 - 46''.84\,\tau - 0''.01\,\tau^2 + (0''.07 - 0''.01\,\tau)\,T^2 - 0''.01\,T^3.$$

Die Präzession durch die Planeten (d. i. das Stück, welches die beiden Ekliptiken der Zeit t_1 und t_2 auf dem Äquator der Zeit t_2 herausschneiden):

$$(a) = (13''.42 - 1''.89\,\tau)\,T - 2''.38\,T^2.$$

Anmerkung. Die eingeklammerten Größen hängen also von beiden Epochen t_1 und t_2, die nichteingeklammerten nur von der einen Epoche $t_1 = 1850.0 + \tau$ ab.

Die Mannigfaltigkeit der Bezeichnungen in den gebräuchlichsten Darstellungen der sphärischen Astronomie läßt es zweckmäßig erscheinen, hier eine Zusammenstellung der Synonyma zu geben:

B. J.	Oppolzer	Newcomb	Andoyer	de Ball
(π)	π	k	(k)	π_τ
(Π)	Π	$180^0 - N$	(φ)	Π_τ
(ψ)	l	l	$(\omega) - (\varphi)$	$(\Delta)_\tau$
(n)	n	Θ	$(\mathfrak{j})$	$\mathfrak{n}$
(N)	P	$90^0 - \zeta_0$	(ϱ)	$90^0 - p$
(m)	m	$z + \zeta_0$	$(\mu) - (\varrho)$	$\mathfrak{m}$
ε	ε	ε	ε	(ε)
(ε_1)	ε'	ε_1	(ε_1)	$(\varepsilon')_\tau$
(ψ_1)	l'	ψ	(ψ)	$(-\psi)_\tau$
(a)	a	$\zeta - z = \lambda$	(χ)	$(a)_\tau$

Die Newcomb'schen Größen ζ_0 und z lassen die folgende geometrische Deutung zu:

$-\zeta_0 = (N) - 90^0$ ist die *AR.* des Himmelspols der Zeit t_2, gerechnet vom Äquinoktium t_1,

$180^0 + z = 90^0 + (N) + (m)$ ist die *AR.* des Himmelspols der Zeit t_1, gerechnet vom Äquinoktium t_2.

b) Nutation.

Die Nutationsglieder zerlegen wir in die langperiodischen Hauptglieder und die von der Mondlänge abhängigen kurzperiodischen Glieder.

1a. Nutation in Länge: $d\psi = \Delta\psi + \Delta\psi'$

$$(1)\begin{cases} \Delta\psi = -(17''.234 + 0''.017\,T)\sin \Omega + 0''.209 \sin 2\,\Omega \\ \quad - 1''.272 \sin 2\,L_\odot + 0''.126 \sin M_\odot \\ \quad - 0''.050 \sin(2\,L_\odot + M_\odot) + 0''.021 \sin(2\,L_\odot - M_\odot) \\ \quad + 0''.012 \sin(2\,L_\odot - \Omega) \\ \Delta\psi' = -0''.204 \sin 2\,L_{☾} + 0''.068 \sin M_{☾} - 0''.034 \sin(2\,L_{☾} - \Omega) \\ \quad - 0''.026 \sin(2\,L_{☾} + M_{☾}) + 0''.015 \sin(2\,L_{☾} - 2\,L_\odot - M_{☾}) \\ \quad + 0''.011 \sin(2\,L_{☾} - M_{☾}) + 0''.006 \sin(2\,L_{☾} - 2\,L_\odot) \end{cases}$$

1b. Nutation in Rektaszension $= \cos\varepsilon\, d\psi$

2. Nutation in Schiefe: $d\varepsilon = \Delta\varepsilon + \Delta\varepsilon'$

$$(2)\begin{cases} \Delta\varepsilon = +(9''.210 + 0''.001\,T)\cos\Omega - 0''.090 \cos 2\,\Omega \\ \quad + 0''.551 \cos 2\,L_\odot + 0''.022 \cos(2\,L_\odot + M_\odot) - 0''.009 \cos(2\,L_\odot - M_\odot) \\ \quad - 0''.007 \cos(2\,L_\odot - \Omega) \\ \Delta\varepsilon' = +0''.089 \cos 2\,L_{☾} + 0''.018 \cos(2\,L_{☾} - \Omega) \\ \quad + 0''.011 \cos(2\,L_{☾} + M_{☾}) - 0''.005 \cos(2\,L_{☾} - M_{☾}) \end{cases}$$

Den Koeffizienten des Hauptgliedes der Nutation in Schiefe nennt man die *Nutationskonstante.*

In vorstehenden Angaben ist nach Hansen resp. Newcomb:

$$(3)\begin{cases} \Omega = 259^0\,10'\,50''.37 - 6962923''.21\,T + 8''.21\,T^2 + 0''.01\,T^3 \\ M_{☾} = 296^0\;\;7'\;\;6''.30 + 1717915936''.17\,T + 49''.59\,T^2 + 0''.05\,T^3 \\ L_{☾} = 270^0\,26'\,44''.59 + 1732564446''.25\,T + 13''.35\,T^2 + 0''.02\,T^3 \\ M_\odot = 358^0\,28'\,33''.0 + 129596579''.10\,T - 0''.54\,T^2 \\ L_\odot = 279^0\,41'\,48''.04 + 129602768''.13\,T + 1''.09\,T^2 \end{cases}$$

Ω Mondknoten; $M_{☾}$ und $M_\odot$ mittlere Anomalie von Mond und Sonne; $L_{☾}$ und $L_\odot$ mittlere Länge von Mond und Sonne; T die seit 1900 Jan. 0.0 mittl. Zeit Greenwich verflossene Zeit in julianischen Jahrhunderten (= 36525 mittleren Sonnentagen). Die Argumente sind gezählt von dem momentanen mittleren Frühlingspunkt.

Den Gesamteffekt der Verlagerungen der Fundamentalebenen erhält man durch Zusammenfassung der Präzessions- und Nutationsglieder. So ist die

$$\text{wahre Schiefe der Ekliptik} = \varepsilon + d\varepsilon = \varepsilon + \Delta\varepsilon + \Delta\varepsilon'$$

Beziehung der Koordinaten auf ein bestimmtes Äquinoktium.

Infolge der Verlagerungen der Ekliptik und der Erdachse im Raume hängen die Koordinaten eines Punkts der Sphäre davon ab, auf welchen Zustand des Koordinatensystems, kurz, auf welches Äquinoktium sie bezogen sind. Die Beobachtungsmethoden verwerten die Rotation der Erde

bei der Messung der Koordinaten und geben sie demnach (oder genauer ihre Differenzen) bezogen auf den momentanen Zustand des Koordinatensystems, d. h. auf den momentanen Äquator[1]). Indem man gleichzeitig die AR. auf den wahren Frühlingspunkt in ihm bezieht, erhält man die Koordinaten, bezogen auf das *wahre Äquinoktium der Beobachtungsepoche.* Befreit man sie von dem Einfluß der Nutation, so beziehen sie sich auf die momentane Lage des mittleren Äquators und der mittleren Ekliptik, kurz auf das *mittlere Äquinoktium der Beobachtungsepoche.* Von hier aus kann man sie auf das *mittlere Äquinoktium des Jahresanfangs* oder auf das einer Normalepoche, ein *Normal-Äquinoktium,* beziehen.

Der Angabe der Koordinaten eines Orts der Sphäre ist stets hinzuzufügen, auf welches Äquinoktium sie bezogen sind. Man kann von »mittleren« Koordinaten sprechen, um dadurch das mittlere Äquinoktium, auf das sie bezogen sind, zu kennzeichnen, der Ausdruck »wahre Koordinaten« ist aber nur für den *wahren Ort* eines Gestirns im Gegensatz zu seinem *scheinbaren* (d. i. durch Aberration, s. später, beeinflußten) anzuwenden.

Zur Übertragung der Gestirnskoordinaten von dem mittl. Äquin. $t_1 = 1850.0 + \tau$ auf das mittl. Äquin. $t_2 = 1850.0 + \tau + T$ (τ und T in tropischen Jahrhunderten) dienen die folgenden Formeln (die Bedeutung der Buchstaben s. S. [5]):

1. Geschlossene Form.

a) Rektaszension und Deklination.

Bezeichnen α_1, δ_1 bezw. α_2, δ_2 die äquatorialen Koordinaten eines Orts, bezogen auf das mittlere Äquinoktium t_1 bezw. t_2, so ist:

$$a_1 = \alpha_1 - ((N) - 90^0)$$

$$p = \left\{ \operatorname{tg} \delta_1 + \cos a_1 \operatorname{tg} \frac{1}{2}(n) \right\} \sin (n)$$

$$\operatorname{tg} \Delta a = \frac{p \sin a_1}{1 - p \cos a_1}$$

$$\alpha_2 = \alpha_1 + (m) + \Delta a$$

$$\operatorname{tg} \frac{1}{2}(\delta_2 - \delta_1) = \cos \left(a_1 + \frac{1}{2}\Delta a\right) \sec \frac{1}{2}\Delta a \operatorname{tg} \frac{1}{2}(n),$$

oder, fast immer ausreichend genau:

$$\delta_2 = \delta_1 + (n) \cos \left(a_1 + \frac{1}{2}\Delta a\right) \sec \frac{1}{2}\Delta a$$

[1]) Wenigstens bei den üblichen Beobachtungsmethoden mit festem Fernrohr; die Ausmessung photographischer Aufnahmen — und strenge genommen auch des visuellen Himmelsbildes bei bewegtem Fernrohr — kann, wenn nur die Örter der Fixpunkte, resp. die Richtungen der Mikrometerfäden entsprechend gewählt werden, in einem beliebigen Koordinatensysteme erfolgen.

b) Länge und Breite.

Bezeichnen λ_1, β_1 bezw. λ_2, β_2 die ekliptikalen Koordinaten eines Orts, bezogen auf das mittlere Äquinoktium t_1 bezw. t_2, so ist:

$$l_1 = \lambda_1 - (\Pi)$$

$$q = \left\{ \operatorname{tg} \beta_1 - \sin l_1 \operatorname{tg} \frac{1}{2} (\pi) \right\} \sin (\pi)$$

$$\operatorname{tg} \Delta l = \frac{q \cos l_1}{1 + q \sin l_1}$$

$$\lambda_2 = \lambda_1 + (\psi) + \Delta l$$

$$\operatorname{tg} \frac{1}{2} (\beta_2 - \beta_1) = - \sin (l_1 + \frac{1}{2} \Delta l) \sec \frac{1}{2} \Delta l \operatorname{tg} \frac{1}{2} (\pi),$$

oder:

$$\beta_2 = \beta_1 - (\pi) \sin (l_1 + \frac{1}{2} \Delta l) \sec \frac{1}{2} \Delta l$$

2. Reihenentwicklung.

Die obigen strengen Übertragungsformeln werden nur angewandt, wenn es sich um polnahe Sterne oder um sehr große Zwischenzeiten $t_2 - t_1$ handelt. In allen anderen Fällen entwickelt man den Präzessionseffekt nach Potenzen der Zwischenzeit $t_2 - t_1$, welche man hier in Jahren auszudrücken pflegt, und setzt:

$$\left| Prz \right|_{t_1}^{t_2} = Prz_{t_1} (t_2 - t_1) + \frac{1}{200} V_{t_1} (t_2 - t_1)^2 + \ldots$$

Darin stellen dar:

Prz$_t$ die momentane Änderung der Koordinaten durch die Präzession zur Zeit t, berechnet für ein Jahr; man bezeichnet sie als *jährliche Präzession* oder kurz *Präzession,*

V_t die hundertjährige Änderung von *Prz*$_t$; man bezeichnet sie als *variatio saecularis (v. s.).*

a) Für Rektaszension und Deklination.

$$Prz_t (\alpha) = m + n \sin \alpha \operatorname{tg} \delta$$

$$Prz_t (\delta) = n \cos \alpha$$

$$\frac{1}{100} V_t (\alpha) = \frac{1}{2} n^2 \sin 2 \alpha + m' + (mn \cos \alpha + n' \sin \alpha) \operatorname{tg} \delta + n^2 \sin 2 \alpha \operatorname{tg}^2 \delta$$

$$\frac{1}{100} V_t (\delta) = - mn \sin \alpha + n' \cos \alpha - n^2 \sin^2 \alpha \operatorname{tg} \delta.$$

Die Werte von *Prz*$_t$ und V_t pflegt man den Angaben der Sternörter in den Sternkatalogen hinzuzufügen. Ist das nicht der Fall, so genügt die Berechnung von *Prz* für das Mittel beider Epochen, um durch

$$\left| Prz \right|_{t_1}^{t_2} = (t_2 - t_1) \, Prz_{\frac{t_1 + t_2}{2}}$$

die gleiche Genauigkeit zu erzielen. Bei größeren Zeiträumen muß man das sog. 3. Glied der Präzession noch berücksichtigen oder den ge-

samten Präzessionseffekt aus der jährlichen Präzession durch mechanische Quadratur

$$|Prz|_{t_1}^{t_2} = \int_{t_1}^{t_2} Prz_t \, dt$$

ermitteln.

b) Für Länge und Breite.

$$Prz_t(\lambda) = \psi + \pi \cos(\Pi - \lambda) \operatorname{tg} \beta$$
$$Prz_t(\beta) = \pi \sin(\Pi - \lambda)$$

Π ist der Wert von (Π) für $T = 0$, also

$$\Pi = 173^0\, 29'\, 40'' + 3286''\, \tau + 1''\, \tau^2.$$

c) Für die rechtwinkligen äquatorialen Koordinaten:

$$x = r \cos\alpha \cos\delta, \qquad y = r \sin\alpha \cos\delta, \qquad z = r \sin\delta.$$

$$Prz_t(x) = -my - nz$$
$$Prz_t(y) = mx$$
$$Prz_t(z) = nx$$

$$\frac{1}{100} V_t(x) = -(m^2 + n^2)\, x - m'y - n'z$$
$$\frac{1}{100} V_t(y) = m'x - m^2 y - mnz$$
$$\frac{1}{100} V_t(z) = n'x - mny - n^2 z$$

Diese Formeln gelangen einmal bei der Transformation der rechtwinkligen äquatorialen Sonnenkoordinaten zur Anwendung. Auch kann man dadurch die Übertragung der sphärischen Koordinaten α, δ polnaher Sterne auf ein anderes mittleres Äquinoktium mit hinreichender Schärfe ausführen und so die umständliche Verwendung der strengen trigonometrischen Formeln umgehen. Man berechnet dazu x und y aus

$$x = \cos\alpha \cos\delta$$
$$y = \sin\alpha \cos\delta$$

fügt den Präzessionseffekt in x und y (dabei ist z durch $\sin\delta$ zu ersetzen) hinzu und geht wieder auf α, δ über.

II. Messung der Zeit.

Der Tag.

Zum Messen der Zeit bedient man sich des periodischen Vorganges der Erdrotation, welche mit konstanter Winkelgeschwindigkeit um die Erdachse erfolgt[1]). Zur Zeiteinheit wählt man die Dauer einer sol-

[1]) Wenn auch eine absolute Konstanz dieser Rotationsgeschwindigkeit aus mancherlei Gründen nicht besteht, ist sie doch für alle Zwecke der gegenwärtigen Praxis als vorhanden anzusehen, resp. diese Voraussetzung braucht erst dann verlassen zu werden, wenn andere Phänomene mit zwingender Gewalt auf eine Veränderlichkeit unseres Zeitmaßes hinweisen.

chen Rotation, den *Tag*, und bestimmt den Zeitmoment durch die augenblickliche Phase dieser Rotation. Da diese Phase indessen nur durch die Stellung des Meridians eines bestimmten Erdorts gegen die Außenwelt, d. h. gegen bestimmte Marken an der Sphäre, fixiert werden kann, und alle Himmelsobjekte ihren Ort an der Sphäre mehr oder weniger verändern, so hängt die Länge der Zeiteinheit von dem gewählten Objekt ab. Da ferner der Meridian eines Erdorts infolge der veränderlichen Lage der Erdachse im Raume nach Verlauf einer Umdrehung nicht mehr die gleiche Lage zur Sphäre einnimmt, und sonach auch dieserhalb die Dauer einer Umdrehung von der Lage des zur Marke dienenden Gestirns, selbst wenn es fest wäre, abhängt, so ist für die Konstanz des Zeitmaßes eine gleichförmige Bewegung der die Zeit bestimmenden Himmelsmarke[1]) in dem wahren Äquator erforderlich.

Als Zeitmarken kommen allein der *Frühlingspunkt*, als Nullpunkt der AR. von wesentlichster Bedeutung für die Astronomie, und die *Sonne*, ihrer Bedeutung für das bürgerliche Leben wegen, in Betracht. Die beiden auf sie begründeten Zeitmessungen bezeichnet man als *Sternzeit-* und als *Sonnenzeit-*Rechnung. Indem man noch den Anfangspunkt der Zählung, das ist den Beginn des Tages, auf den Moment der Kulmination legt, definiert man im besonderen als

Sternzeit: den Stundenwinkel des wahren Frühlingspunkts.

Sonnenzeit: den Stundenwinkel der Sonne.

Sterntag resp. *Sonnentag:* die Zeit, die zwischen zwei aufeinanderfolgenden Durchgängen des Frühlingspunkts resp. der Sonne durch den Meridian verfließt.

Allgemein gilt dann für jedes Gestirn:

$$\text{Sternzeit } (\Theta) = \text{Stundenwinkel } (t) + \text{Rektaszension } (\alpha).$$

Da aber die Bewegung der Sonne in AR. ungleichförmig ist, führt man statt der wahren Sonne eine mit gleichförmiger Geschwindigkeit im wahren Äquator wandernde fingierte, eine sogenannte *mittlere Sonne* ein, die sich von der wahren Sonne möglichst wenig entfernt.

Nach Newcomb ist die mittlere Länge der Sonne, L (d. i. der Komplex der säkularen Terme in der wahren Länge der Sonne), bezogen auf den jedesmaligen mittleren Frühlingspunkt und behaftet mit dem konstanten Teil der Aberration:

$$L = 279^0\,41'\,27''.54 + 129602768''.13\,T + 1''.089\,T^2,$$

worin T die seit 1900 Jan. 0.0 M. Z. Greenwich verflossene Zeit in Einheiten von 36525 mittleren Sonnentagen bezeichnet.

Demnach definiert man als Rektaszension der mittleren Sonne, ebenfalls bezogen auf den jedesmaligen mittleren Frühlingspunkt,

$$A_m = 279^0\,41'\,27''.54 + 129602768''.13\,T + 1''.393\,T^2$$
$$= 18^h\,38^m\,45^s.836 + 8640184^s.542\,T + 0^s.0929\,T^2.$$

[1]) oder eigentlich nur ihrer sphärischen Projektion auf den wahren Äquator.

Anmerkung. Die quadratischen Glieder in L und A_m entspringen der geringfügigen Veränderlichkeit der säkularen Bewegung des mittleren Frühlingspunkts — nur enthält das Glied in L noch den kleinen Betrag $-0''.020\ T^2$, der der Bewegung der Sonne anhaftet —, der Unterschied der quadratischen Glieder in L und A_m daher in der Hauptsache dem Unterschied der quadratischen Glieder der allgemeinen Präzession in Länge und Rektaszension. Die mittlere Sonne entfernt sich also bei dieser Definition allmählich ein wenig von der wahren Sonne.

Man definiert dann als:

Wahre (Sonnen)-*Zeit* den Stundenwinkel der *wahren* Sonne.
Mittlere (Sonnen)-*Zeit* den Stundenwinkel der *mittleren* Sonne.
Wahren Mittag den Kulminationsmoment der *wahren* Sonne.
Mittleren Mittag den Kulminationsmoment der *mittleren* Sonne.

Ebenso bezeichnet man die Zeit, die zwischen zwei aufeinanderfolgenden Durchgängen dieser mittleren Sonne durch den Meridian verfließt, als *mittleren Sonnentag.*

Den Unterschied beider Sonnenzeiten nennt man die *Zeitgleichung.* Es ist:

Zeitgleichung = *Mittlere Zeit* minus *Wahre Zeit.*

Da aber

Sternzeit = Wahre Zeit + AR. der wahren Sonne
= Mittlere Zeit + AR. der mittleren Sonne

ist, so folgt:

Zeitgleichung = AR. der wahren Sonne *minus* AR. der mittleren Sonne.

Die Rektaszension der wahren Sonne unterscheidet sich nun von A_m durch periodische Glieder, die den periodischen Gliedern der wahren Sonnenlänge (Mittelpunktsgleichung, periodische Störungen), sowie der Übertragung von der Ekliptik auf den Äquator entspringen, und durch das kleine quadratische Zeitglied: $-0''.304\ T^2$. Dieser Gesamtbetrag ist also die Zeitgleichung, die von Mittag zu Mittag tabuliert zu werden pflegt.

Die mittlere Zeit ist für die Zwecke der astronomischen Praxis als ein gleichförmiges Maß der Zeit anzusehen. —

Auch der wahre Frühlingspunkt ist infolge der Nutation der Erdachse nicht gleichförmig im Äquator bewegt. Indessen sind seine Schwankungen um den mittleren Frühlingspunkt nur geringfügig, so daß man bei der Rechnung nach wahrer Sternzeit stehen bleibt. Diese Messung der Zeit durch die wahre Sternzeit weicht also von einer absolut gleichförmigen Zeitmessung, wie sie durch eine ideale Uhr angezeigt würde, um den Betrag der Nutation des Frühlingspunkts in AR. ab; die Hauptglieder verursachen eine Schwankung um eine absolut gleichförmige Zeitmessung von $\pm 1^s.05$ in $18^2/_3$-jähriger und von $\pm 0^s.08$ in $^1/_2$-jähriger Periode.

Auch der allein der Präzession unterworfene mittlere Frühlingspunkt ist infolge des quadratischen Gliedes der Präzession nicht ganz gleichförmig bewegt, so daß auch der mittlere Sterntag säkular veränderlich ist, doch ist die Ungleichförmigkeit auf absehbare Zeit hin zu vernachlässigen.

Zur Umrechnung von Sternzeit in mittlere Zeit und umgekehrt bedarf man des Verhältnisses der beiden Zeiteinheiten und der Beziehung der Zählungsanfangspunkte aufeinander.

Um die Beziehung beider Zählungsanfangspunkte aufeinander zu erhalten, wendet man die Beziehung $\Theta = t + \alpha$ auf die mittlere Sonne an; darin ist

$$\alpha = A_m + \text{Nut. in AR.}$$

zu setzen, da, wie die Sternzeit als Stundenwinkel des wahren Frühlingspunkts definiert ist, auch die AR. der mittleren Sonne vom wahren Frühlingspunkt aus gezählt werden muß. Indem man $t = 0$ setzt, gibt man an

$$\text{Sternzeit im mittleren Mittag} = A_m + \text{Nut. in AR.}$$

Damit erhält man als Verhältnis der beiden Zeiteinheiten unter Vernachlässigung der geringfügigen säkularen Veränderlichkeit des mittleren Sterntages:

1 (mittlerer) Sterntag[1]) = 0.997269567 mittlere Sonnentage
= $23^h\ 56^m\ 4^s.09058$ in mittlerem Zeitmaß.
1 mittlerer Sonnentag = 1.002737909 (mittlere) Sterntage
= $24^h\ 3^m\ 56^s.55536$ in Sternzeitmaß.

Die genannten Zeiten sind infolge ihrer Definition als Stundenwinkel eines Himmelsobjekts *Ortszeiten*; da die Differenz der Zeiten zweier Orte (im gleichen Moment) gleich der geographischen Längendifferenz beider Orte ist, setzt eine Beziehung zweier an verschiedenen Erdorten erhaltenen Zeitangaben die Kenntnis ihrer *Längendifferenz* voraus.

Um der Unbequemlichkeit des beständigen Wechsels der Zeit von Ort zu Ort zu entgehen, hat man neuerdings im bürgerlichen Leben gewisse Normalzeiten eingeführt, die für eine ganze Zone (in geographischer Länge) gleich bleiben; sie sind fast durchweg an den Greenwicher Meridian angeschlossen und weichen um eine bestimmte Anzahl ganzer Stunden von Greenwicher Zeit ab, so die Greenwicher Zeit selbst, die Mitteleuropäische Zeit (Greenwicher Zeit + 1^h), usw.

Der Beginn des bürgerlichen Tages wird auf Mitternacht gelegt, so daß die ersten zwölf Stunden des astronomischen Tages mit den Nachmittagsstunden desselben bürgerlichen Tages, die zweiten zwölf Stunden mit den Vormittagsstunden des nächstfolgenden bürgerlichen Tages identisch sind.

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[1]) d. h. abzüglich der Nutationsschwankungen oder die Durchschnittslänge eines wahren Sterntages.

Das Jahr.

Die durchlaufende Zählung nach Tagen bietet bei größeren Zeiträumen Unbequemlichkeiten, zu deren Vermeidung man als Zeiteinheit an die Stelle des Tages das *Jahr* einführt.

1. Das *tropische Jahr* ist die Zeit, in welcher die mittlere Länge der wahren Sonne (ohne periodische Störungen) um 360° zunimmt. Seine Länge ist somit =

$$[365.24219879 - 0.00000614\ T] \text{ mittleren Tagen,}$$

(Bedeutung von T s. S. [11] unten)

es ist also nicht absolut konstant, doch nimmt seine Länge in einem Jahrtausend nur um $5^s.3$ ab.

Nach Bessel legt man den Beginn des astronomischen Jahres auf den Moment, in welchem

$$A_m = 280^0 = 18^h\,40^m$$

ist, was nahe mit dem bürgerlichen Jahresanfang zusammenfällt, nennt diesen Moment den Beginn des *annus fictus* und sagt z. B. 1925.0; die Länge dieses so definierten annus fictus ist somit =

$$[365.24219879 - 0.00000786\ T] \text{ mittleren Tagen}$$

und ist demnach sehr nahe der des tropischen Jahres gleich. Der Moment, in welchem das annus fictus beginnt, ist ein von jeder Beziehung zu einem Erdorte unabhängiger, absoluter Weltzeitmoment. Um ihn zu den einzelnen Ortszeiten in Beziehung zu setzen, benutzt man den Meridian, in welchem die mittlere Sonne im Beginn des annus fictus kulminiert, den sog. *Normalmeridian.* Die Beziehung des bürgerlichen Jahresanfangs für einen bestimmten Meridian zu dem des annus fictus vermittelt dann der sog. *dies reductus*, d. h. die Differenz »bürgerlicher Jahresanfang *minus* Anfang des annus fictus«.

2. Das *julianische Jahr* = $365\,^1/_4$ mittleren Sonnentagen.
3. Das *gregorianische* oder *bürgerliche Jahr* = 365.2425 mittleren Sonnentagen (1582 eingeführt, indem nach dem 4. Oktober 10 Tage ausgelassen und gleich der 15. Oktober gezählt wurde).

Die astronomische Praxis setzt den Beginn des Gemeinjahres auf

Jan. 0 $0^h\,0^m\,0^s$ mittlerer Ortszeit,

den Beginn des Schaltjahres

Jan. 1 $0^h\,0^m\,0^s$ mittlerer Ortszeit.

Den Ausgangspunkt der astronomischen Zeitrechnung nach Jahren bildet das Jahr 0, identisch mit dem Jahre 1 v. Chr. der Chronologie; allgemein ist das Jahr $-n$ gleich dem Jahre $n+1$ v. Chr., so daß von Anfang des Jahres $-n$ bis zum Anfang des Jahres $+m$ genau $m+n$ Jahre verflossen sind.

Die durchlaufende Rechnung nach mittleren Sonnentagen setzt den Beginn der sogenannten *julianischen Periode* auf Januar 1.0 des Jahres

—4712; von da an sind die Jahre bis 1581 einschließlich als julianische gezählt, das Jahr 1582 erhält 365 — 10 = 355 Tage, dann wird nach den Vorschriften des gregorianischen Kalenders weiter gerechnet.

III. Reduktion der beobachteten Koordinaten eines Gestirnsortes.

Die Aberration (Scheinbarer und Wahrer Ort).

Der Ort, an dem uns ein Gestirn erscheint, und sonach die Richtung, an dem wir das Gestirn am Fernrohr einstellen, entspricht nicht der geradlinigen Verbindungslinie des Beobachtungs- und des Gestirnsorts, sondern weicht infolge der endlichen Fortpflanzungsgeschwindigkeit des Lichtes um den Betrag der sogenannten *Aberration* davon ab. Aus dem gleichen Grunde ist der Moment t_2, in dem wir das Gestirn beobachten, von dem Moment t_1, zu dem es das Licht aussandte, um die sogenannte *Lichtzeit* ($\Delta t = 498^s.4\,\Delta$, Δ in Einheiten der mittleren Entfernung Erde—Sonne) verschieden.

Die *Aberration* bewirkt eine Verschiebung des Gestirnsorts in der Richtung nach dem Zielpunkt oder Apex der momentanen Bewegung des Beobachters um den Betrag $\frac{v}{V}\sin D$, wenn v und V die Geschwindigkeit des Beobachters und des Lichts, D den Winkelabstand des Gestirns von jenem Apex bezeichnen. Den so verschobenen, allein beobachtbaren Ort des Gestirns nennt man seinen *scheinbaren* Ort, den von dem Aberrationseffekt befreiten seinen *wahren* Ort. In aller Strenge müßte man den Aberrationseffekt mit der momentanen Bewegungs-Richtung und -Geschwindigkeit des Beobachters berechnen, in der Praxis zerlegt man ihn aber mit hinreichender Schärfe, den beiden Hauptbewegungsformen des Beobachters entsprechend, in die *tägliche* (der Erdrotation entstammende) und die *jährliche* (dem elliptischen Erdumlauf um die Sonne entstammende) Aberration.

Bezeichnet man die scheinbaren Koordinaten durch hinzugefügte Striche, so erhält man als Reduktionsformeln für

Tägliche Aberration:

$$\alpha - \alpha' = -0''.320\cos\varphi\cos t\sec\delta$$
$$\delta - \delta' = -0''.320\cos\varphi\sin t\sin\delta.$$

Bei differentiellen Messungen fällt sie heraus, bei Meridianbeobachtungen ($t = 0$) wirkt sie nur auf α und läßt sich stets in Verbindung mit dem Kollimationsfehler des Instruments berücksichtigen.

Jährliche Aberration.

Es genügt auch hier fast stets, sich auf die Glieder erster Ordnung zu beschränken. In ekliptikalen Koordinaten wird:

$$\lambda - \lambda' = 20''.47 \cos(\odot - \lambda) \sec\beta + \{0''.343 \cos(L_\odot - M_\odot - \lambda) \sec\beta\}$$
$$\beta - \beta' = 20''.47 \sin(\odot - \lambda) \sin\beta + \{0''.343 \sin(L_\odot - M_\odot - \lambda) \sin\beta\}.$$

Hierin ist $\odot$ die wahre Länge der Sonne. Den Koeffizienten des Hauptgliedes nennt man die *Aberrationskonstante.* Das in Klammern gesetzte, von der Erdbahnexzentrizität abhängige Glied bewirkt[1]) für die Fixsterne eine konstante Verschiebung des Orts an der Sphäre; auch sein Betrag in α und in δ kann außer bei ganz polnahen Sternen als konstant angesehen werden; seine Berücksichtigung erübrigt sich daher hier. Damit wird dann in äquatorialen Koordinaten:

$$\alpha - \alpha' = 20''.47 (\sin\alpha \sin\odot + \cos\alpha \cos\odot \cos\varepsilon) \sec\delta$$
$$\delta - \delta' = 20''.47 (\cos\alpha \sin\odot \sin\delta - (\sin\alpha \sin\delta \cos\varepsilon - \cos\delta \sin\varepsilon) \cos\odot).$$

Die Abweichung der tatsächlichen Erdbewegung von einer den Keplerschen Gesetzen folgenden elliptischen Bewegung um den Sonnenmittelpunkt, herrührend von den störenden Einflüssen der Planeten und des Mondes, verursacht nur geringfügige Aberrationseffekte (vergl. H. Battermann, Beiträge zur astronomischen Aberrationslehre, Diss., Berlin 1881), die unberücksichtigt bleiben können.

Der von der Aberration befreite wahre Ort stellt die Richtung von dem Erdort E_2 nach dem Gestirnsort S_1 dar und könnte bei Kenntnis der Entfernung des Gestirns und damit der Lichtzeit durch Berücksichtigung des parallaktischen Effekts der Erdbewegung von E_1 nach E_2 (kurz der *Lichtzeitparallaxe*) auf den gemeinsamen Moment t_1 bezogen, d. h. auf die Richtung von E_1 nach S_1, reduziert werden. In der Praxis verwertet man indessen die Tatsache, daß für alle Körper des Sonnensystems die Bewegung des Erdmittelpunkts während der Lichtzeit als geradlinig gelten kann und sonach der zur Zeit t_2 beobachtete scheinbare Gestirnsort gleich dem der Zeit t_1 zugehörigen wahren ist, und befreit die unmittelbare Beobachtung von Aberration und Lichtzeitparallaxe zusammen, indem man — neben der eventuellen Berücksichtigung der täglichen Aberration — nur die Beobachtungszeit t_2 um Δt vermindert. Der Fehler beträgt im Maximum etwa $0''.001\,\Delta$ und erreicht damit selbst für Neptun höchstens $0''.03$. Damit ist dann auch für die Wandelsterne das kleine von der Erdbahnexzentrizität abhängige Glied berücksichtigt. Ist die Entfernung unbekannt, so bringt man an den zur Zeit t_2 beobachteten scheinbaren Ort allein die Aberration an und hat dann die wahre Richtung von E_2 nach S_1; um dann bei neuentdeckten Planeten oder Kometen wahre heliozentrische Örter für die Zeit t_1 zu gewinnen, führt man in die Übertragungsformeln der geozentrischen Örter des Gestirns in heliozentrische die Erdkoordinaten der Epoche t_2 ein; die Zeitmomente t_1 selbst lernt man allerdings erst kennen, wenn durch die Bahnbestimmung die Entfernung Δ bekannt wird. Für die Fixsterne, deren

[1]) Wenigstens soweit man von den Veränderungen der Erdbahn selbst absieht.

Entfernung ja fast durchweg unbekannt ist, sieht man von der Berücksichtigung der Lichtzeitparallaxe ganz ab, wodurch nur ein für die Praxis gleichgültiger konstanter Fehler in dem Sternort entsteht.

Die Parallaxe.

Die beobachteten Örter beziehen sich auf den jedesmaligen Standpunkt des Beobachters als Koordinatennullpunkt, sie werden daher praktisch noch auf einen von dem individuellen Standpunkt des Beobachters unabhängigen Nullpunkt übergeführt, als den man im allgemeinen den Erd- oder den Sonnenmittelpunkt wählt. Diese Übertragung der beobachteten *topozentrischen* in geozentrische oder heliozentrische Örter erfolgt durch Berücksichtigung der sogenannten *täglichen* oder *jährlichen Parallaxe*, indem man die Veränderung, welche die Richtung nach einem Objekte beim Übergang von einem Beobachtungsstandpunkt zu einem anderen erleidet, als *parallaktische* und ihren Betrag allgemein als *Parallaxe* bezeichnet. Wird der Betrag einer solchen Verschiebung des Koordinatensystems in rechtwinkligen Koordinaten durch die drei Strecken x, y, z fixiert, so ist in leicht ersichtlicher Schreibweise:

$$\begin{aligned} \Delta \cos A \cos B &= \Delta' \cos A' \cos B' + x \\ \Delta \sin A \cos B &= \Delta' \sin A' \cos B' + y \\ \Delta \sin B &= \Delta' \sin B' + z, \end{aligned}$$

woraus man weitere Formeln für $A'-A$, $B'-B$, $\Delta'-\Delta$ ableiten kann. Zu ihrer Auswertung muß man die Beträge x, y, z und die Entfernung des Objekts kennen.

Geozentrischer Ort.

Beim Übergang auf das Erdzentrum wird in äquatorialen Koordinaten

$$x = \varrho \cos \Theta \cos \varphi', \qquad y = \varrho \sin \Theta \cos \varphi', \qquad z = \varrho \sin \varphi',$$

worin ϱ, φ', Θ die geozentrischen Polarkoordinaten des Beobachtungsorts im äquatorialen Koordinatensystem, d. h. ϱ, φ' geozentrischen Radiusvektor und geozentrische Breite, Θ die Sternzeit bezeichnen. Sind a, b die Halbachsen der Erdmeridianellipse, $\alpha = \frac{a-b}{a}$ die sogenannte Abplattung der Erde, φ die geographische Breite des Beobachtungsorts, so dienen zur Bestimmung von ϱ und φ' die Gleichungen:

$$\begin{aligned} \varrho \sin \varphi' &= s \sin \varphi \\ \varrho \cos \varphi' &= c \cos \varphi \\ s &= \frac{1-e^2}{\sqrt{1-e^2 \sin^2 \varphi}} \\ c &= \frac{1}{\sqrt{1-e^2 \sin^2 \varphi}} \\ e &= \sqrt{2\alpha - \alpha^2} \end{aligned}$$

Die Erddimensionen sind nach

	a	b	$1:\mathfrak{a}$
Bessel	6377397 m	6356079 m	299.15
Clarke	6378249	6356515	293.47
Helmert . . .	6378000	6356612	298.20

Durch die Pariser Ephemeridenkonferenz vom Oktober 1911 ist zur Berechnung der Parallaxe der Wert $\mathfrak{a} = 1:297.0$ festgesetzt worden.

Für den Mond muß man die strengen Transformationsformeln oder mehrere Glieder der Reihenentwicklungen verwenden, für alle übrigen Gestirne reicht das erste Glied dieser Entwicklungen aus:

$$\alpha_{\text{geoz.}} - \alpha_{\text{topoz.}} = \frac{\rho p_\odot}{\Delta} \cos\varphi' \sec\delta \sin(\Theta - \alpha)$$

$$\delta_{\text{geoz.}} - \delta_{\text{topoz.}} = \frac{\rho p_\odot}{\Delta} [\cos\delta \sin\varphi' - \sin\delta \cos\varphi' \cos(\Theta - \alpha)].$$

ρ in Einheiten des Äquatorradius a der Erde,
Δ in Einheiten der mittleren Entfernung Erde—Sonne.

$p_\odot = 8''.80$ ist die *Sonnenparallaxe*, d. i. der Winkel, unter welchem der Äquatorradius a der Erde von der Sonne in ihrer mittleren Entfernung erscheint.

$\frac{p_\odot}{\Delta}$, der Winkel, unter dem a von einem Gestirn in der Entfernung Δ erscheint, heißt die *Äquatorial-Horizontalparallaxe* des Gestirns, $\frac{\rho p_\odot}{\Delta}$ seine *Horizontalparallaxe.*

Heliozentrischer Ort.

Bei Zugrundelegung äquatorialer Koordinaten wird

$$x = -R\cos\odot, \quad y = -R\sin\odot\cos\varepsilon, \quad z = -R\sin\odot\sin\varepsilon,$$

worin R den Radiusvektor in der Erdbahn bezeichnet. Damit wird:

$$\alpha_{\text{hel.}} - \alpha_{\text{geoz.}} = p_{*} R(\cos\odot \sin\alpha - \sin\odot\cos\varepsilon\cos\alpha)\sec\delta$$

$$\delta_{\text{hel.}} - \delta_{\text{geoz.}} = p_{*} R\{(\cos\varepsilon\sin\alpha\sin\delta - \sin\varepsilon\cos\delta)\sin\odot + \sin\delta\cos\alpha\cos\odot\}.$$

In ekliptikalen Koordinaten ist einfacher

$$\lambda_{\text{hel.}} - \lambda_{\text{geoz.}} = p_{*} R\sin(\lambda - \odot)\sec\beta$$

$$\beta_{\text{hel.}} - \beta_{\text{geoz.}} = p_{*} R\cos(\lambda - \odot)\sin\beta.$$

Hierin bezeichnet p_{*} den Winkel, unter welchem die mittlere Entfernung Erde—Sonne von dem Stern aus erscheint, kurz die *Parallaxe* des Sterns.

Reduktion auf den scheinbaren Ort.

Zusammenfassend folgt:

Die Beobachtung eines Gestirns, befreit von den Instrumentalfehlern, der Refraktion und der täglichen Aberration, gibt, sobald sie von der Erdrotation Gebrauch macht, die auf das wahre Äquin. des Beobachtungsmoments bezogenen Koordinaten seines scheinbaren Orts; gesucht werden die auf ein bestimmtes, mittleres Äquin. bezogenen Koordinaten seines wahren Orts. Zu dem Zwecke hat man bei Fixsternen zunächst

die jährliche Aberration und — für die wenigen Sterne, deren Parallaxen einen verbürgten Wert haben, — die jährliche Parallaxe anzubringen; man erhält dadurch den wahren heliozentrischen Ort, bezogen auf das wahre Äquin. der Beobachtungsepoche. Bei den Körpern des Sonnensystems hat man nur die tägliche Parallaxe, berechnet für die Beobachtungszeit anzubringen, um wahre geozentrische Örter, bezogen auf das wahre Äquin. der Beobachtungszeit, und gültig für die um die Lichtzeit verminderte Beobachtungszeit zu erhalten. Die Beseitigung der Nutationsbeträge überträgt dann die Koordinaten auf das momentane mittlere Äquin., von wo aus man sie durch Berücksichtigung der Präzession auf das mittlere Äquin. des Jahresanfangs (annus fictus) und schließlich auf das einer Normalepoche zu übertragen pflegt. — Um umgekehrt die Theorie, die die Koordinaten der wahren Örter, auf ein mittleres Äquin. bezogen, gibt, mit den Beobachtungen vergleichbar zu machen, bezieht man sie zunächst durch Berücksichtigung des Präzessionseffekts auf das mittlere Äquin. des Jahresanfangs. Die weiteren Reduktionen werden durch sachgemäße Umkehrung des soeben erörterten Verfahrens erhalten.

Bei Fixsternen vereinigt man die Einzelreduktionen:
vom mittleren Äquin. des Jahresanfangs auf das momentane mittlere Äquin.,
von diesem auf das momentane wahre Äquin., und
die Wirkung der Aberration
zur *Reduktion auf den scheinbaren Ort* (Reductio ad locum apparentem, Red. ad l. app.). Sie läßt sich, wenn mit t die seit dem Beginn des annus fictus verflossene Zeit in Teilen des tropischen Jahres, mit α', δ' die auf das wahre Äquinoktium zur Zeit der Beobachtung bezogenen Koordinaten des scheinbaren Orts, mit α, δ die auf das mittlere Äquin. des Jahresanfangs bezogenen Koordinaten des wahren Orts bezeichnet werden, in folgende Formen bringen:

Erste Form.

$$\alpha' - \alpha = a\,A + b\,B + c\,C + d\,D + E + [a A' + b B']$$
$$\delta' - \delta = a'\,A + b'\,B + c'\,C + d'\,D + [a' A' + b' B'];$$

hierin sind:

$$a = m + n \sin\alpha \operatorname{tang}\delta \qquad a' = n \cos\alpha$$
$$b = \cos\alpha \operatorname{tang}\delta \qquad b' = -\sin\alpha$$
$$c = \cos\alpha \sec\delta \qquad c' = \operatorname{tang}\varepsilon \cos\delta - \sin\alpha \sin\delta$$
$$d = \sin\alpha \sec\delta \qquad d' = \cos\alpha \sin\delta$$

$$\begin{aligned} A = t &- (0.34215 + 0.00031\,T) \sin \Omega + 0.00415 \sin 2\,\Omega \\ &- 0.02526 \sin 2\,L_{\odot} + 0.00251 \sin M_{\odot} \\ &- 0.00099 \sin (2\,L_{\odot} + M_{\odot}) + 0.00042 \sin (2\,L_{\odot} - M_{\odot}) \\ &+ 0.00025 \sin (2\,L_{\odot} - \Omega) \end{aligned}$$

$$\begin{aligned} A' = &- 0.00405 \sin 2\,L_{☾} + 0.00135 \sin M_{☾} - 0.00068 \sin (2\,L_{☾} - \Omega) \\ &- 0.00052 \sin (2\,L_{☾} + M_{☾}) + 0.00030 \sin (2\,L_{☾} - 2\,L_{\odot} - M_{☾}) \\ &+ 0.00023 \sin (2\,L_{☾} - M_{☾}) + 0.00012 \sin (2\,L_{☾} - 2\,L_{\odot}) \end{aligned}$$

$$B = -(9''.210 + 0''.001\,T)\cos\Omega + 0''090\cos 2\,\Omega$$
$$-\,0''.551\cos 2\,L_\odot - 0''.022\cos(2\,L_\odot + M_\odot) + 0''.009\cos(2\,L_\odot - M_\odot)$$
$$+\,0''.007\cos(2\,L_\odot - \Omega)$$
$$B' = -\,0''.089\cos 2\,L_☾ - 0''.018\cos(2\,L_☾ - \Omega)$$
$$-\,0''.011\cos(2\,L_☾ + M_☾) + 0''.005\cos(2\,L_☾ - M_☾)$$
$$E = -(0''.043 - 0''.006\,T)\sin\Omega$$
$$C = -\,20''.47\cos\odot\cos\varepsilon$$
$$D = -\,20''.47\sin\odot$$

(Bedeutung der Bezeichnungen s. S. [7])

Die Beziehung zu den früheren Bezeichnungen ist gegeben durch:

$$A = t + \frac{1}{n}\sin\varepsilon\,\Delta\psi \quad ; \quad A' = \frac{1}{n}\sin\varepsilon\,\Delta\psi'$$
$$B = -\,\Delta\varepsilon \quad ; \quad B' = -\,\Delta\varepsilon'$$
$$E = \left(\cos\varepsilon - \frac{m}{n}\sin\varepsilon\right)\Delta\psi.$$

Zweite Form.

$$\alpha' - \alpha = f + g\sin(G + \alpha)\operatorname{tang}\delta + h\sin(H + \alpha)\sec\delta$$
$$+\,[f' + g'\sin(G' + \alpha)\operatorname{tang}\delta]$$
$$\delta' - \delta = g\cos(G + \alpha) + h\cos(H + \alpha)\sin\delta + i\cos\delta + [g'\cos(G' + \alpha)].$$

Hierin haben f, g, G, h, H, i und f', g', G' die Bedeutung:

$$f = mA + E \qquad i = C\operatorname{tang}\varepsilon \qquad f' = mA'$$
$$g\sin G = B \qquad h\sin H = C \qquad g'\sin G' = B'$$
$$g\cos G = nA \qquad h\cos H = D \qquad g'\cos G' = nA'$$

Die erste Form wird hauptsächlich verwendet, wenn man für einen Stern eine ganze Reihe von Örtern rechnen muß, hingegen wendet man besser die zweite Form an, wenn es gilt, für einen Zeitpunkt mehrere Sterne zu reduzieren. — Die Glieder mit A, B, E, A', B', resp. f, g, G, f', g', G' stellen den Einfluß der Präzession und Nutation, die Glieder mit C, D, resp. i, h, H den der Aberration dar.

Die vorstehenden Differential-Näherungsformeln reichen für polnahe Sterne nicht mehr aus. Bezeichnet man für diese die nach den vorstehenden Formeln berechneten Reduktionsbeträge mit $\Delta\alpha_0$, $\Delta\delta_0$, so geben die Gleichungen von Fabritius:

$$\Delta\alpha = \Delta\alpha_0 + [4.6856 - 10]\operatorname{tg}\delta\,\Delta\alpha_0\,\Delta\delta_0$$
$$\Delta\delta = \Delta\delta_0 - [6.7367 - 10]\sin\delta\cos\delta\,(\Delta\alpha_0)^2,$$

die wegen der bedeutenderen Glieder höherer Ordnung verbesserten Werte der Red. ad l. app. Die Zahlen in eckigen Klammern sind Logarithmen.

Inwieweit die im obigen angeführten Ausdrücke in den Ephemeriden und Tabellen des Jahrbuchs zur Anwendung gelangt sind, ist im folgenden ausführlich angegeben.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind, wenn nicht ausdrücklich eine andere Zeit angegeben wird, in Mittlerer Zeit Greenwich ausgedrückt.

Die Örter der *Fixsterne* sind einmal als wahre, auf das mittlere Äquinoktium des Jahresanfangs bezogen, und dann in Ephemeridenform als scheinbare, auf das instantane wahre Äquinoktium bezogen, gegeben.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—40).

Der erste Teil der Sonnenephemeride (S. 2—21) gibt auf den linken Seiten für jeden mittleren Greenwicher Mittag:

1) Die Zeitgleichung = Mittlere Zeit *minus* Wahre Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer der Sonnenscheibe durch den Meridian in Sternzeit.

4) Den geozentrischen Halbmesser H der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Sternzeit im Mittleren Greenwicher Mittag.

Um für einen anderen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seinem Mittleren Mittag zu erhalten, ist zu diesen Angaben zuzulegen: $9^s.8565\,\Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten (S. 339*—346*).

2) Die geozentrischen ekliptikalen Koordinaten λ, β des wahren Sonnenorts, bezogen auf das mittlere Äquinoktium des Jahresanfangs,

sowie log R, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

3) Die Zeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50^0$ Breite. Um daraus für einen beliebigen anderen Ort zwischen $+45^0$ und $+55^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 326* zu benutzen.

Die Seiten 20 und 21 enthalten ferner noch die Aberration, Parallaxe, mittlere Länge $L_{\odot}$ und mittlere Anomalie $M_{\odot}$ der Sonne im Intervall von je 10 Tagen.

Auf S. 22—40 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für 0^h und 12^h Mittlere Zeit Greenwich mit ihren stündlichen Änderungen in Einheiten der siebenten Dezimale. Daneben stehen von Tag zu Tag ihre Reduktionen auf das mittlere Äquinoktium 1925.0. Auf S. 258*—260* sind die vereinigten Werte, d. h. die auf das mittlere Äquinoktium 1925.0 bezogenen rechtwinkligen Sonnenkoordinaten sechsstellig von 4 zu 4 Tagen gegeben; sie dienen zur bequemen Verbindung der Koordinatenangaben aufeinanderfolgender Jahre bei Rechnungen über kleine Planeten und Kometen.

Mondephemeride (S. 41—71).

Der erste Teil der Mondephemeride (S. 41—60) gibt für 0^h und 12^h Mittlere Zeit Greenwich:

1) Die scheinbare Rektaszension und Deklination des Mondes mit den ersten Differenzen.

2) Den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe $p_{☾}$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_{☾}$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

Auf S. 60 sind die Zeiten der Mondphasen zusammengestellt.

Die Seiten 61—70 enthalten für den oberen Durchgang des Mondes im Nullmeridian die genäherten Angaben für:

1) Die Rektaszension, Deklination und Parallaxe des Mondes, sowie die Mittlere Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h Längendifferenz.

2) Die Zeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50^0$ Breite nebst Änderung für 1^h Längendifferenz. Um daraus für einen beliebigen anderen Ort zwischen $+45^0$ und $+55^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 327* zu benutzen.

S. 70 gibt die Epochen des Perigäums und Apogäums des Mondes.

Auf S. 71 finden sich:

☊, Aufsteigender Knoten der Mondbahn auf der Ekliptik
$L_☾$, Mittlere Länge des Mondes
$M_☾$, Mittlere Anomalie des Mondes
i, Neigung des Mondäquators gegen den Erdäquator
☊′, Aufsteigender Knoten des Mondäquators auf dem Erdäquator
Δ, Stück des Mondäquators zwischen Ekliptik und Erdäquator

☋, der aufsteigende Knoten des Mondäquators auf der Ekliptik ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = ☊ \pm 180^0$$

Die Größen i, Δ und ☊′ berechnen sich aus:

$$\sin\frac{1}{2}(\Delta + ☊')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}☋$$

$$\cos\frac{1}{2}(\Delta + ☊')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}☋$$

$$\sin\frac{1}{2}(\Delta - ☊')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}☋$$

$$\cos\frac{1}{2}(\Delta - ☊')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}☋;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Selenographische Koordinaten III, S. 49) zu $J = 1^0\,32'\,6''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 71 gemachten Angaben über die Elemente der Mondbahn und des Mondäquators dienen, teilweise in Verbindung mit den Größen $L_\odot$ und $M_\odot$ auf S. 21, verschiedenen Zwecken:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 8 gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ϱ, σ haben die Werte:

$$\tau = -\,12''\sin M_☾ + 59''\sin M_\odot + 18''\sin 2(L_☾ - M_☾ - ☊)$$

$$\varrho = -107''\cos M_☾ + 37''\cos(2L_☾ - M_☾ - 2☊) - 11''\cos 2(L_☾ - ☊)$$

$$\sigma\sin J = -109''\sin M_☾ + 37''\sin(2L_☾ - M_☾ - 2☊) - 11''\sin 2(L_☾ - ☊)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.75$, worüber F. Hayn (Selenographische Koordinaten III, S. 49) einzusehen ist.

Ephemeride für den Mondkrater Mösting A

(S. 72—76).

Die Ephemeride des Mondkraters Mösting A dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 12^h Mittlere Zeit Greenwich und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektaszension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Beobachtungszeit. Fügt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ zum geozentrischen Ort des Kraters (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische AR. und Dekl. des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_☾ - \alpha'_k$ und $\delta'_☾ - \delta'_k$ zwischen Mondmittelpunkt und Mösting A aus folgenden Identitäten:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$
$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k)$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A mit den mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von $\alpha'_☾$ und $\delta'_☾$ und den Angaben auf Seite 71 die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_☾) \cos \tfrac{1}{2}(\delta' + \delta'_☾)$$
$$s \cos \pi_m = \delta' - \delta'_☾$$
$$\pi = \pi_m - \tfrac{1}{2}(\alpha' - \alpha'_☾) \sin \tfrac{1}{2}(\delta' + \delta'_☾)$$
$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″.59 (nach J. Peters, Astr. Nachr. Bd. 138, S. 147) eingesetzt werden.

$$\begin{aligned}
\sin d &= -\sin \delta'_{☾} \cos K + \cos \delta'_{☾} \sin K \cos \pi \\
\cos d \cos (a - \alpha'_{☾}) &= -\cos \delta'_{☾} \cos K - \sin \delta'_{☾} \sin K \cos \pi \\
\cos d \sin (a - \alpha'_{☾}) &= \sin K \sin \pi \\
\sin \beta &= \sin d \cos i - \cos d \sin i \sin (a - ☊') \\
\cos \beta \sin \lambda' &= \sin d \sin i + \cos d \cos i \sin (a - ☊') \\
\cos \beta \cos \lambda' &= \cos d \cos (a - ☊') \\
\lambda &= \lambda' - 180^\circ - L_{☾} - (\Delta - ☋).
\end{aligned}$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$\begin{aligned}
d\lambda = &+ 12'' \sin M_{☾} - 59'' \sin M_{\odot} - 18'' \sin 2 (L_{☾} - M_{☾} - ☊) \\
&+ \operatorname{tg} \beta \,[-108'' \cos (L_{☾} - M_{☾} - ☊ + \lambda) + 37'' \cos (L_{☾} - M_{☾} - ☊ - \lambda) \\
&- 11'' \cos (L_{☾} - ☊ - \lambda)] \\
d\beta = &+ 108'' \sin (L_{☾} - M_{☾} - ☊ + \lambda) + 37'' \sin (L_{☾} - M_{☾} - ☊ - \lambda) \\
&- 11'' \sin (L_{☾} - ☊ - \lambda)
\end{aligned}$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelte Konstanten (Selenographische Koordinaten III, Seite 49) zugrunde:

$$\lambda_0 = -5^\circ\ 10'\ 13'', \qquad \beta_0 = -3^\circ\ 10'\ 58''$$

h = 15′ 34″.71 entsprechend der Parallaxe 57′ 2″.27

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$\begin{aligned}
d\lambda &= -12'' \sin M_{☾} + 59'' \sin M_{\odot} + 18'' \sin 2 (L_{☾} - M_{☾} - ☊) \\
d\beta &= -145'' \sin (L_{☾} - M_{☾} - ☊) + 11'' \sin (L_{☾} - ☊),
\end{aligned}$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Mit diesen Werten vollzieht sich die Rechnung der Ephemeride nach folgenden Formeln:

$$(1) \qquad \lambda' = \lambda + 180^0 + L_☾ + \Delta - ☋$$

$$(2) \quad \begin{cases} \sin d = \sin\beta \cos i + \cos\beta \sin i \sin\lambda' \\ \sin(a - ☊') \cos d = -\sin\beta \sin i + \cos\beta \cos i \sin\lambda' \\ \cos(a - ☊') \cos d = \cos\beta \cos\lambda' \end{cases}$$

$$(3) \quad \begin{cases} \cos K = -\sin d \sin\delta_☾ - \cos d \cos\delta_☾ \cos(\alpha_☾ - a) \\ \sin\pi \sin K = -\cos d \sin(\alpha_☾ - a) \\ \cos\pi \sin K = \sin d \cos\delta_☾ - \cos d \sin\delta_☾ \cos(\alpha_☾ - a) \end{cases}$$

$$(4) \quad \operatorname{tang} s = \frac{\sin h \sin K}{1 - \sin h \cos K}$$

$$(5) \quad \begin{cases} \delta_k - \delta_☾ = s \cos\pi \\ \alpha_k - \alpha_☾ = s \sin\pi \sec\delta_m, \quad \text{worin } \delta_m = \frac{1}{2}(\delta_k + \delta_☾) \\ \sin p_k = \dfrac{\sin p_☾ \sin(K + s)}{\sin K} \end{cases}$$

Ephemeriden der Grofsen Planeten (S. 77—130).

Die geozentrischen Örter der Planeten sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen mit ihren ersten Differenzen gegeben, und zwar in scheinbaren, d. h. auf das momentane wahre Äquinoktium bezogenen Koordinaten des scheinbaren Orts, für 0^h Mittlere Zeit Greenwich. Die letzte Spalte gibt die Mittlere Greenwicher Zeit der oberen Kulmination im Nullmeridian.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Merkur	Halbmesser	. . . . .	3″.34		
»	Venus	»	. . . . . .	8 .78		
»	Mars	»	. . . . .	4 .68		
»	Jupiter	»	(Äquatorial)	99 .8,	(Polar)	92″.6
»	Saturn	»	(Äquatorial)	81 .4,	(Polar)	73 .4
»	Uranus	»	. . . . . .	34 .7		
»	Neptun	»	. . . . . .	45		

Die heliozentrischen Ephemeriden der Planeten (S. 127—130) geben den Log. des Radius vector, die Länge in der Bahn, deren Reduktion auf die Ekliptik und die Breite, außerdem bei den Planeten Jupiter, Saturn, Uranus und Neptun noch den bei Störungsrechnungen manchmal gebrauchten Winkel B_0, welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten gemachten Angaben über ☊ und i gelten.

Bei Jupiter, Saturn, Uranus und Neptun stellen ☊ und i die Bahnlage für die Epoche 1925.0 und das Normal-Äquinoktium 1925.0 dar; bei Merkur, Venus und Mars gelten sie für den Jahresanfang 1916.0 und sind bezogen auf das Äquinoktium 1925.0.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, heliozentrischer Radius vector und Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Recheninstituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch mechanische Quadratur berechnet.

Scheinbare Örter von 573 Fixsternen (S. 26*—225*).

Die scheinbaren Örter der Fixsterne sind für den Moment der oberen Kulmination im Greenwicher Meridian gegeben und enthalten die kurzperiodischen Mondglieder der Nutation nicht; nur bei den 18 Polsternen ist deren Betrag gesondert unter der Überschrift ☾ gegeben.

Zunächst werden die scheinbaren Örter von 555 Sternen von 10 zu 10 Sterntagen gegeben; in der ersten Spalte ist die Mittlere Greenwicher Zeit der Kulmination hinzugefügt.

Es folgen die scheinbaren Örter für 18 weniger als 10° von den Polen entfernte Sterne für jede obere Kulmination. Die Anordnung ist eine derartige, daß für jeden Zeitraum einer Seite sämtliche 9 (entweder nördliche oder südliche) Polsterne nebeneinander aufgeführt sind, wie es für den Gebrauch am geeignetsten erscheint. Die Glieder zweiter Ordnung der »Reduktion auf den scheinbaren Ort« sind hierbei berücksichtigt.

Am Fuß der Ephemeriden ist der mittlere Ort eines jeden Sterns für den Anfang des Jahres, außer für die Polsterne, wieder angegeben, dazu die Werte von tg δ und sec δ (bei den Polsternen, wenn nichts anderes angegeben, für die Deklination der Seitenmitte giltig), welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden.

Die jährliche Parallaxe ist bei folgenden Sternen, bei denen sie 0".20 übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59 τ Ceti	mit 0".31	Nr. 538 α Centauri	mit 0".75
Nr. 127 ε Eridani	» 0 .32	Nr. 745 α Aquilae	» 0 .23
Nr. 257 α Can. maj.	» 0 .38	Nr. 793 61 Cygni	» 0 .30
Nr. 291 α Can. min.	» 0 .33		

bereits berücksichtigt. Von den nicht mit Ephemeriden versehenen Sternen des **F. K.** besitzt noch Nr. 825, ε Indi eine Parallaxe von 0".25.

Reduktionsgröfsen (S. 226*—266*).

Auf die scheinbaren Örter der Sterne folgt S. 226* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 0^h Sternzeit des Meridians von Greenwich:

1) Auf S. 227* im Intervall von 10 Sterntagen; hier sind die von der Mondlänge abhängigen Glieder A' und B' nicht angegeben.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Um hierbei vollständige Übereinstimmung mit den Ephemeriden des Jahrbuchs zu erzielen, sind die Glieder $+0.00025 \sin(2L_\odot - \Omega)$ in A und $+0''.007 \cos(2L_\odot - \Omega)$ in B unterdrückt, worauf durch Anmerkungen hingewiesen wurde. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 248*—257* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Mittlere Zeit Greenwich vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, $\log g$, G, $\log h$, H, $\log i$ sowie f', g' und G' sind S. 228*—247* von Tag zu Tag für 12^h Mittlere Zeit Greenwich gegeben. Um den Gebrauch der Spalte $\log i$ zu erleichtern, sind an den Stellen, wo die Werte von i durch Null gehen, auch die numerischen Werte in besonderer Spalte hinzugefügt.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt.

Die Seiten mit ungerader Seitenzahl enthalten der Reihe nach folgende Größen:

a) Allgemeine Präzession seit 1916.0.
b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) Die wahre Schiefe der Ekliptik (ohne die kurzperiodischen Glieder der Nutation in Schiefe).
e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.

Die mittlere Schiefe der Epoche erhält man durch Subtraktion der Werte in Spalte e) von denen der Spalte d).

Weitere Reduktionsgrößen folgen auf Seite 258*—260*. Es sind dies zunächst die rechtwinkligen äquatorialen Sonnenkoordinaten, bezogen auf das Normaläquinoktium 1925.0, die hauptsächlich zur Berechnung von genaueren Ephemeriden kleiner Planeten nützlich sind. Die auf den gleichen Seiten gegebenen Größen f, $\log g$ und G dienen zur Übertragung der Örter von dem mittleren Normaläquinoktium $t_2 = 1925.0$ auf das instantane wahre Äquinoktium t_1. Für α und δ sind in den angegebenen Formeln ihre genäherten Werte für das Äquin. $\frac{t_1+t_2}{2}$ zu setzen; will man hingegen die auf das Äquin. t_2 bezogenen Koordinaten benutzen, so hat man noch die auf S. 261* und 262* gegebenen Korrektionen anzubringen.

Es folgen auf Seite 263* eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium von 1916.0 sowie eine Tafel der Hilfsgrößen zur Berechnung der Präzession von den hauptsächlichsten Sternkatalog-Epochen bis 1916.0.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium von 1916.0 auf das Normaläquinoktium 1925.0 (auf Seite 264* bis 266*) beschließt die Sammlung der Tafeln der Reduktionsgrößen.

Sonnen- und Mondfinsternisse (S. 268*—274*).

Die Angaben über die Finsternisse sind den von dem Bureau des Longitudes, Paris, gemachten Mitteilungen entnommen; über ihre Grundlagen enthält die Connaissance des Temps für 1916 das Erforderliche.

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y, $\log \sin d$, $\log \cos d$, μ, l ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung[1]),
$\log \operatorname{tang} f$ ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung[2]),
$\log x'$, $\log y'$ und $\log \mu'$.

Nun rechnet man die folgenden Formelsysteme durch:

$$(1)\quad \begin{cases} \xi = c \cos \varphi \sin (\mu - \lambda) \\ \eta = s \sin \varphi \cos d - c \cos \varphi \sin d \cos (\mu - \lambda) \\ \zeta = s \sin \varphi \sin d + c \cos \varphi \cos d \cos (\mu - \lambda) \\ \xi' = [6.4637]\, \mu' c \cos \varphi \cos (\mu - \lambda) \\ \eta' = [6.4637]\, \mu' \xi \sin d\,, \end{cases}$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 336* zu entnehmen sind.

Alsdann:

$$(2)\quad \begin{cases} m \sin M = x - \xi \\ m \cos M = y - \eta \end{cases} \quad m > 0 \qquad \begin{cases} n \sin N = x' - \xi' \\ n \cos N = y' - \eta' \end{cases} \quad n > 0$$

Nun berechnet man aus:

$$(3)\quad L = l - \zeta \operatorname{tang} f$$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

$$(4)\quad \sin \psi = \frac{m \sin (M - N)}{L} \;{}^{3)}$$

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschattenkegel, der andere zu ihrem Austritt aus ihm gehört. Diesen je zwei Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen je zwei Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach:

$$(5)\quad \tau = -\frac{m \cos (M - N)}{n} + \frac{L \cos \psi}{n}$$

Ist die Ausgangszeit T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen solange durchrechnen, bis dieses der Fall ist, d. h. bis das

---

[1]) In der Elemententabelle sind diese Größen mit l_a und l_i bezeichnet.

[2]) In der Elemententabelle sind diese Größen mit f_a und f_i bezeichnet.

[3]) Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90°$ aus $\tau = -\frac{m \cos (M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1, für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion τ_1; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ u. s. f., bis $\tau_n = 0$ sich ergibt. T_n ist dann die gesuchte Mittlere Greenwicher Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in Mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert zu führen. Ob die verschiedenen Phasen an dem betreffenden Orte wahrnehmbar sind, hängt von den Auf- und Untergangszeiten der beiden Gestirne ab.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkte größter Deklination im Sinne der wachsenden Rektaszensionen herum gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach:

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ, der sich aus:

$$\left.\begin{array}{l} p \sin \gamma = \xi \\ p \cos \gamma = \eta \end{array}\right\} \quad p > 0$$

berechnet, abzuziehen:

$$Q = P - \gamma.$$

Um die Zeit der größten Phase, $T_{\max}$, zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte $\overline{T}_1$ durchzurechnen, daraus $\overline{T}_2 = \overline{T}_1 - \frac{m \cos (M - N)}{n}$ zu entnehmen und die Rechnung so lange fortzusetzen, bis die Korrektion der Ausgangszeit 0 wird. Als Näherungswert $\overline{T}_1$ wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

Die Größe der Verfinsterung, i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2 L^{(a)} - 0.5450},$$

worin $L^{(a)}$ und m die zur Zeit $T_{\max}$ gehörigen Werte bedeuten.

Beispiel: Berechnung der Sonnenfinsternis 1916 Juli 29 für Perth (West-Australien)

Erste Näherung:

Ausgangswert: $T_1 = 14^h\ 10^m$

Korrektionen: $\tau_1^{(a_1)} = -144^m = -2^h\ 24^m$

$\tau_1^{(a_2)} = +64^m = +1^h\ 4^m$

Zweite Näherung:

Ausgangswerte: $T_2^{(a_1)} = 11^h\,46^m$; $T_2^{(a_2)} = 15^h\,14^m$

Korrektionen: $\tau_2^{(a_1)} = +12^m$; $\tau_2^{(a_2)} = +2^m$

Dritte Näherung:

Ausgangswert: $T_3^{(a_1)} = 11^h\,58^m$; $T_3^{(a_2)} = 15^h\,16^m$

Korrektionen: $\tau_3^{(a_1)} = 0$; $\tau_3^{(a_2)} = 0$

Definitive Werte:

$$T^{(a_1)} = 11^h\,58^m; \quad T^{(a_2)} = 15^h\,16^m$$

Damit werden die Positionswinkel gerechnet:

$$P^{(a_1)} = 297^\circ; \quad P^{(a_2)} = 108^\circ$$
$$Q^{(a_1)} = 65^\circ; \quad Q^{(a_2)} = 270^\circ$$

Ausgangswert für größte Phase: $T_1 = 13^h\,30^m$

Korrektion: $\tau_1 = 0^m$

definitiv $T_{max} = 13^h\,30^m$

damit $i = 0.826$

Durch Hinzufügung von $7^h\,43^m$ erhält man die entsprechenden Ortszeiten.

Anmerkung: $\psi^{(i)}$ bleibt imaginär (auch bei der zweiten Näherung unter der Annahme $\psi_1^{(i)} = 90^\circ$); also sind die inneren Berührungen in Perth nicht sichtbar.

Sternbedeckungen durch den Mond (S. 275*—285*).

Die seitens des Nautical Almanac Office, Washington, übermittelten Angaben über die Sternbedeckungen sind in der folgenden Weise verwertet worden:

Tabelle I gibt die Elemente für die irgendwo auf der Erde sichtbaren Bedeckungen der helleren Sterne (bis 4^m) des Auwers'schen Fundamentalkatalogs, zugleich mit der Mittleren Greenwicher Zeit der Konjunktion in AR. und den Sichtbarkeitsgrenzen.

Tabelle II gibt ein Verzeichnis von 126 Fixsternen, die im Jahre 1916 vom Monde bedeckt werden. Aus der umfassenderen Liste der American Ephemeris sind diejenigen Sterne ausgezogen, deren Bedeckung an irgend einem Orte in Mitteleuropa beobachtet werden kann.

Tabelle III gibt dann für die Sterne der Tabelle II die Elemente der Bedeckung nebst der Mittleren Greenwicher Zeit der Konjunktion in AR.

Die bei den Sternbedeckungen gegebenen Elemente dienen in folgender Weise zur Vorausberechnung der Bedeckungen:

Mit einer Ausgangszeit T (Mittlere Zeit Greenwich) rechnet man die Sternzeit Θ, ferner $x = (T - T_0)\,x'$ und $y = y_0 + (T - T_0)\,y'$, worin

T_0, die Konjunktionszeit in Rektaszension, und y_0, x', y', die Werte von y, x', y' zur Zeit T_0, aus den Ephemeriden zu entnehmen sind. Alsdann rechnet man das folgende Formelsystem durch:

$$(1)\quad \begin{cases} \mu = \Theta - \alpha_* \\ \xi = c \cos\varphi \sin(\mu - \lambda) \\ \eta = s \sin\varphi \cos\delta_* - c \cos\varphi \sin\delta_* \cos(\mu - \lambda) \\ \xi' = [9.4192]\, c \cos\varphi \cos(\mu - \lambda) \\ \eta' = [9.4192]\, \xi \sin\delta_* , \end{cases}$$

worin α_* und δ_* Rektaszension und Deklination des bedeckten Sterns, φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, und c und s aus der Tafel auf S. 336* zu entnehmen sind. Alsdann:

$$(2)\quad \begin{cases} m \sin M = x - \xi \\ m \cos M = y - \eta \\ n \sin N = x' - \xi' \\ n \cos N = y' - \eta' \end{cases} \quad \begin{matrix} m > 0 \\ \\ n > 0 \end{matrix}$$

Aus

$$(3)\quad \sin\psi = \frac{m \sin(M - N)}{k}\,^{1)};\quad [k = 0.2725;\ \log k = 9.4354]$$

finden sich zwei Werte ψ, von denen der Wert mit negativem Kosinus, $\psi^{(e)}$, dem Eintritt, der Wert mit positivem Kosinus, $\psi^{(a)}$, dem Austritt angehört.

Daraus dann $\tau^{(e)}$ und $\tau^{(a)}$, in Einheiten der mittleren Zeitstunde, nach:

$$(4)\quad \tau = -\frac{m \cos(M - N)}{n} + \frac{k \cos\psi}{n}$$

Die Rechnung ist abgeschlossen, die Ausgangszeit T die richtige Zeit der Bedeckung, wenn $\tau = 0$ herauskommt. Anderenfalls muß die Rechnung mit $T + \tau$ anstelle von T wiederholt und diese Operation solange fortgesetzt werden, bis die Korrektion $\tau = 0$ sich ergibt.

Als ersten Näherungswert T_1 wählt man, falls kein besserer Näherungswert bekannt sein sollte, die Konjunktionszeit T_0 (Mittlere Zeit Greenwich). Dann wiederholt man die Rechnung mit

$$T_2 = T_1 + \tau_1^{(e)} \quad (\text{resp. } T_1 + \tau_1^{(a)})$$

und so fort. Wird $\tau_n = 0$, so ist T_n die Mittlere Greenwicher Zeit der Bedeckung.

---

1) Wird ψ bei der ersten Näherung imaginär, so rechne man τ unter der Annahme $\psi = 90°$ aus $\tau = -\frac{m \cos(M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so bedeutet dies, daß für den betreffenden Ort der Stern nicht bedeckt wird. Die aus $\tau = -\frac{m \cos(M - N)}{n}$ erhaltene Zeit ist dann die Zeit der größten Annäherung von Mond und Stern.

Durch Anbringung der Längendifferenz an T_n erhält man die Mittlere Ortszeit der Bedeckung, die in Verbindung mit den Auf- und Untergangszeiten der beiden Gestirne erkennen läßt, ob die Bedeckung an dem Orte wahrnehmbar ist.

Mit den der letzten Näherung entsprechenden Werten berechnet man den Positionswinkel P der Bedeckung (gezählt in üblicher Art vom Punkte größter Deklination aus im Sinne der wachsenden Rektaszensionen) aus:

$$P = N + \psi$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ, der sich aus

$$\left.\begin{array}{l} p \sin \gamma = \xi \\ p \cos \gamma = \eta \end{array}\right\} \quad p > 0$$

berechnet, abzuziehen:

$$Q = P - \gamma$$

Statt die erste Näherung mit der Konjunktionszeit T_0 zu beginnen, kann man sofort eine weitergehende Näherung:

$$T = T_0 + \tau$$

erhalten, indem man τ aus der folgenden Hilfstafel (S. [35]) mit den Argumenten φ (geographische Breite) und $\mu - \lambda$ (Ortsstundenwinkel) entnimmt; τ hat das Vorzeichen des Ortsstundenwinkels.

Beispiel zur Berechnung einer Sternbedeckung.

χ Tauri, Königsberg, 1916 Jan. 15

Konjunktionszeit $T_0 = 11^h\ 34^m.2$ Mittlere Zeit Greenwich; ihr entspricht der Ortsstundenwinkel $4^h\ 15^m.1$; mit diesem und der geographischen Breite wird die erste Korrektion $\tau = +1^h.0$ der Tabelle entnommen.

Erste Näherung: Ausgangswert: $T_1 = 12^h\ 34^m$

Korrektionen: $\tau_1^{(e)} = -0^h.464 = -28^m$

$\tau_1^{(a)} = +0^h.568 = +34^m$

Zweite Näherung:

Ausgangswerte: $T_2^{(e)} = 12^h\ 6^m$; $T_2^{(a)} = 13^h\ 8^m$

Korrektionen: $\tau_2^{(e)} = -0^h.006 = 0^m$; $\tau_2^{(a)} = -0^h.010 = -1^m$

Dritte Näherung:

Ausgangswert: $T_3^{(a)} = 13^h\ 7^m$

Korrektion: $\tau_3^{(a)} = +0^h.007 = 0$

Definitive Werte:

$$T^{(e)} = 12^h\ 6^m; \qquad T^{(a)} = 13^h\ 7^m$$

Damit werden die Positionswinkel gerechnet:

$$P^{(e)} = 283^\circ \qquad P^{(a)} = 76^\circ$$

$$Q^{(e)} = 243^\circ \qquad Q^{(a)} = 37^\circ$$

$\mu-\lambda$	Geographische Breite φ														
	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
h m	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
0 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
40	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1
1 0	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.2	0.2
20	1.1	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.3	0.2
40	1.3	1.3	1.3	1.2	1.2	1.1	1.0	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.3
2 0	1.5	1.5	1.5	1.4	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4
20	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.6	0.5	0.4
40	1.8	1.8	1.7	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8	0.7	0.6	0.4
3 0	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.9	0.7	0.6	0.5
20	1.9	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.2	1.1	0.9	0.8	0.7	0.5
40	2.0	2.0	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.8	0.7	0.6
4 0	2.0	2.0	2.0	1.9	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.0	0.9	0.7	0.6
20	2.0	2.0	2.0	1.9	1.9	1.8	1.7	1.6	1.5	1.3	1.2	1.0	0.9	0.7	0.6
40	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.3	1.2	1.1	0.9	0.8	0.6
5 0	1.9	1.9	1.9	1.9	1.8	1.7	1.7	1.6	1.5	1.3	1.2	1.1	0.9	0.8	0.6
20	1.9	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	0.9	0.8	0.6
40	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.9	0.8	0.6
6 0	1.8	1.8	1.7	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.1	1.0	0.9	0.8	0.6
20	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6
40		1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.1	1.0	0.8	0.7	0.6
7 0				1.5	1.4	1.4	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6
20				1.4	1.4	1.3	1.3	1.2	1.1	1.1	1.0	0.9	0.8	0.7	0.5
40					1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5
8 0							1.1	1.1	1.0	0.9	0.9	0.8	0.7	0.6	0.5
20								1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.5
40										0.8	0.7	0.7	0.6	0.5	0.4
9 0										0.7	0.7	0.6	0.5	0.5	0.4
20											0.6	0.5	0.5	0.4	0.4
40											0.5	0.5	0.4	0.4	0.3
10 0											0.4	0.4	0.4	0.3	0.3
20												0.4	0.3	0.3	0.2
40												0.3	0.2	0.2	0.2
11 0												0.2	0.2	0.2	0.1
20												0.1	0.1	0.1	0.1
40													0.1	0.1	0.1
12 0													0.0	0.0	0.0

Jupiterstrabanten (S. 286*—287*).

Auf die Sternbedeckungen folgen die Zeitangaben für die Verfinsterungen der vier älteren Jupiterstrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E und A unterschieden.

Die Angaben sind den Mitteilungen des Bureau des Longitudes, Paris, entnommen. Genauere Angaben zum Zwecke der Ableitung geozentrischer Örter der Jupiterstrabanten finden sich in der Connaissance des Temps.

Saturnsring (S. 288*—291*, 303*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Scheinbare kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial 17″.47 Polar 15″.65

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\ 57'.0 \quad \text{und} \quad i_1 = 28^\circ\ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35.$$

Saturnstrabanten (S. 292*—319*).

Alle Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI,

abgeleiteten und im folgenden kurz angeführten Elementen durchgeführt. Einzelne Verbesserungen zu den Elementen hat Herr H. Struve Astr. Nachr. Bd. 162, S. 325 u. ff. mitgeteilt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Mimas

(II, Seite 195).

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 127^\circ\ 19'.0$

$n = 381^\circ.9945$

$\delta l = -44^\circ.243 \sin(116^\circ.46 + 5^\circ.075\, t) - 0^\circ.75 \sin 3\,(116^\circ.46 + 5^\circ.075\, t)$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 54^\circ.7 - 365^\circ.3\, t$

$\gamma = 1^\circ\ 36'.5$

$\Pi_1 = 107^\circ.2 + 365^\circ.3\, t$

$e = 0.0190$

$a = 26''.814$

Enceladus

(II, Seite 183).

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 199^\circ\ 19'.8$

$n = 262^\circ.73199$

$\delta l = +11'.24 \sin(143^\circ + 92^\circ.4\, t) + 20'.0 \sin(75^\circ + 29^\circ.3\, t)$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 328^\circ - 152^\circ.7\, t$

$\gamma = 1'.4$

$\Pi_1 = 308^\circ.38 + 123^\circ.43\, t$

$e = 0.0046$

$a = 34''.401$

Tethys

(II, Seite 195).

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 284^\circ\ 31'.0$

$n = 190^\circ.69795$

$\delta l = +118'.90 \sin(116^\circ.46 + 5^\circ.075\, t) + 2'.02 \sin 3\,(116^\circ.46 + 5^\circ.075\, t)$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 110^\circ.55 - 72^\circ.5\, t$

$\gamma = 1^\circ\ 4'.36$

$e = 0.0000$

$a = 42''.586$

Dione

(II, Seite 183).

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 253^\circ\ 51'.4$

$n = 131^\circ.534955$

$\delta l = -1'.21 \sin(143^\circ + 92^\circ.4\, t) - 2'.13 \sin(75^\circ + 29^\circ.3\, t)$

$l_1 = E_0 + nt_d + \delta l$

$\Theta = 276^\circ - 31^\circ.0\, t$

$\gamma = 4'.0$

$\Pi_1 = 165^\circ + 31^\circ.0\, t$

$e = 0.0020$

$a = 54''.543$

Rhea
(II, Seite 176).

Epoche: 1889 April 0.0 Mittl. Zeit Grw.

$$E_\circ = 358^\circ\ 23'.8$$
$$n = 79^\circ.690087$$
$$E - E_\circ = +\ 4'.95 \sin(347^\circ.3 - 10^\circ.1\ t)$$
$$l = E_\circ + nt_d + (E - E_\circ)$$
$$(\Omega - \Omega_1) \sin i_1 = 19'.77 \sin(347^\circ.3 - 10^\circ.1\ t) - 0'.38 + 1'.00 \sin(48^\circ.5 - 0^\circ.50\ t)$$
$$i - i_1 = 19'.77 \cos(347^\circ.3 - 10^\circ.1\ t) - 2'.79 + 1'.00 \cos(48^\circ.5 - 0^\circ.50\ t)$$
$$\Pi = 305^\circ + 10^\circ.1\ t$$
$$e = 0.0009$$
$$a = 76''.170$$

Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

Titan
(II, Seite 172).

Epoche: 1890 Jan. 0.0 Mittl. Zeit Grw.

$$E_\circ = 260^\circ\ 25'.1$$
$$n = 22^\circ.577009$$
$$E - E_\circ = +\ 4'.05 \sin(47^\circ.8 - 0^\circ.51\ t)$$
$$l = E_\circ + nt_d + (E - E_\circ)$$
$$\Omega = 167^\circ\ 51'.2 + 35'.84 \sin(47^\circ.8 - 0^\circ.506\ t) + 0'.837\ t$$
$$i = 27^\circ\ 28'.4 + 16'.88 \cos(47^\circ.8 - 0^\circ.506\ t)$$
$$\Pi = 276^\circ\ 15' + 31'.7\ t + 22'.0 (\sin 2g - \sin 2g_\circ)$$
$$e = 0.02886 + 0.000186 (\cos 2g_\circ - \cos 2g)$$
$$g = \Pi - \Omega - 4^\circ.5$$
$$g_\circ = g \text{ für } t = 0$$
$$a = 176''.578$$

Hyperion
(II, Seite 290).

Epoche: 1890 Jan. 0.0 Mittl. Zeit Grw.

$$E_\circ = 304^\circ.53$$
$$n = 16^\circ.919983$$
$$\delta l = 9^\circ.16 \sin(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$l = E_\circ + n\ t_d + \delta l$$

Äquinoktium: 1890.0. Epoche: 1890.0 + t.

$$\Omega = 167^\circ\ 49'.7 + 42'.4 \sin(47^\circ.8 - 0^\circ.50\ t) + 78'.1 \sin(121^\circ.7 - 2^\circ.0\ t)$$
$$i = 27^\circ\ 20'.8 + 19'.6 \cos(47^\circ.8 - 0^\circ.50\ t) + 36'.2 \cos(121^\circ.7 - 2^\circ.0\ t)$$

Epoche und Äquinoktium: 1888.890 + t.

$$\Pi = 276^\circ.50 - 18^\circ.663\,t + 14^\circ.0 \sin(-0^\circ.84 + 19^\circ.191\ t) - 1^\circ.5 \sin(-1^\circ.68 + 38^\circ.382\ t)$$
$$e = 0.1043 + 0.0230 \cos(-0^\circ.84 + 19^\circ.191\ t) + \delta e$$
$$e\delta e = -0.00044 \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$a = 213''.92 + \delta a$$
$$\delta a = -0.00354\ a \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$

Japetus

(I, Seite 87; II, Seite 139).

Epoche: 1885 Sept. 1.0 Mittl. Zeit Grw.

$E_0 = 75^\circ\ 26'.4$		$i = 18^\circ\ 28'.3 - 0'.54\ t$	
$n = 4^\circ.537997$		$\Pi = 354^\circ\ 30' + 7'.9\ t$	
$l = E_0 + n\,t_d$		$e = 0.02836 + 0.000015\ t$	
$\Omega = 142^\circ\ 12'.4 - 1'.48\ t$		$a = 514''.59$	

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\varrho) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 292* bis 303* die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkeligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\rho)}{\rho}\,\frac{1}{1+\zeta}\,\frac{r}{a}\sin(u-U)$$

$$y = \frac{a(\rho)}{\rho}\,\frac{1}{1+\zeta}\,\frac{r}{a}\sin B\cos(u-U).$$

$(\varrho) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, ϱ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon

merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u - U) + \sin\gamma \operatorname{cotg} B \sin(u - \vartheta)].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich auf Seite 303*; auch ist hier γ für Rhea, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben;

für Tethys ist $\frac{r}{a} = 1$.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 304*—312* finden sich für die drei äußeren Trabanten Titan, Hyperion und Japetus, außer den Hilfsgrößen U, B und P, die Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind wahre Örter und beziehen sich auf das mittlere Äquinoktium der Epoche.

Zum Schluß enthalten die Seiten 313*—319* die Zeitangaben für die östlichen und westlichen Elongationen der Saturnstrabanten ($u - U = \pm 90°$) und für die oberen und unteren Konjunktionen von Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen ($u - U = 0°, 180°$) sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 320*).

In der Übersicht der Konstellationen des Jahres 1916 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Größe, letztere nur soweit als die Differenz der Deklination zwischen Planet und Stern den Betrag von 1° nicht übersteigt, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Letztere sind nur insoweit berücksichtigt, als die

Differenz der Deklinationen beider Planeten den Betrag von 3° nicht übersteigt. Für die Berechnung der Epochen der größten Helligkeit der Venus wurde für die Lichtstärke die Formel von G. Müller (*Publikation des Astro-phys. Observatoriums zu Potsdam,* Bd. VIII, Seite 197 ff.) zugrunde gelegt:

$$h = -4.004 + 0.01322\,\alpha + 0.0000004247\,\alpha^3 + 5\log(r\Delta),$$

worin α (in Graden) den Winkel an der Venus im Dreieck Sonne—Venus—Erde, r und Δ die ihn einschließenden Seiten bezeichnen.

Hilfstafeln (S. 321*—338*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 321*—323*).

a) Präzession in Rektaszension und Deklination.

$$p_\alpha = m + n \sin\alpha \operatorname{tg}\delta$$
$$p_\delta = n \cos\alpha$$

b) Präzession in Länge und Breite.

$$p_\lambda = \psi + \pi \operatorname{tg}\beta \cos(\Pi - \lambda)$$
$$p_\beta = \pi \sin(\Pi - \lambda)$$

c) Präzessionswerte m, n, ψ, π, Π.

Den Tafeln a) und b) liegen die Präzessionswerte für 1925.0 zugrunde.

2) Tafel des halben Tagbogens (S. 324*—325*). Berechnet mit der Horizontalrefraktion 34′.9 für geographische Breiten von + 45° bis + 55° und Deklinationen von + 30° bis — 30°.

3) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 326*—327*). Sie geben die Reduktion der für + 50° Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen +45° und +55° und sind mit der Horizontalrefraktion 34′.9 für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

4) Eine Tafel für die Ermittelung eines Datums in der julianischen Periode (Seite 328*—331*.) Die Tafel besteht aus zwei Teilen: Der erste Teil (S. 328*—329*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage. Der zweite Teil (S. 330*—331*) gibt für die Jahre 1860—1940 unmittelbar die Anzahl der am 0. jedes Monats im gregorianischen Kalender seit Beginn der julianischen Periode verflossenen Tage.

5) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzei (S. 332*) und von Sternzeit in Mittlere Zeit (S. 333*).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 334*—335*).

7) Eine Tafel der Hilfsgrößen s und c (S. 336*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ϱ eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$
$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1 - e^2}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad c = \frac{1}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad e = \sqrt{2\mathfrak{a} - \mathfrak{a}^2}$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\mathfrak{a} = \frac{1}{297.0}$ angenommen.

8) Die Tafel zur Berechnung der optischen Mondlibration (S. 337*—338*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\varDelta\lambda$, a und B entsprechend den Gleichungen:

$$\varDelta\lambda = \frac{1}{\text{arc } 1'} \text{tang}^2 \frac{1}{2} J \sin 2 (\lambda - \Omega)$$
$$a = -\cos (\lambda - \Omega) \sin J$$
$$\text{tang } B = -\sin (\lambda - \Omega) \text{ tang } J$$

$J = 1° 32' 6'' =$ Neigung des Mondäquators gegen die Ekliptik.
$\Omega =$ Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 71).
$\lambda, \beta =$ Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort; man kann diese Größen aus der mit Hinzufügung der Parallaxe berechneten Rektaszension und Deklination des Mondes ableiten, wozu man sich der gewöhnlichen Umwandlungsformeln, oder, wenn nicht größere Genauigkeit erfordert wird, der Enckeschen Hilfstafel in Heft 14 der Veröffentlichungen des Rechen-Instituts bedienen mag.

Bezeichnen noch $L_{☾}$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_{☾} + \varDelta\lambda - a (B - \beta)$$
$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos (L_{☾} + l' + \varDelta - ☋)}{\cos \delta_{☾}} = -\sin i \frac{\cos (\alpha_{☾} - \Omega')}{\cos b'},$$

worin $\alpha_{☾}$, $\delta_{☾}$ Rektaszension und Deklination des Mittelpunktes der Mondscheibe, gesehen vom Beobachtungort aus, bezeichnen; die anderen vorkommenden Größen i, $\varDelta$, ☋ und Ω' haben schon auf S. [23] der Erläuterungen ihre Erklärung gefunden.

Koordinaten der Sternwarten (S. 339*—346*).

Die Seiten 339*—346* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen. Die Angaben sind zum größten Teil dem Verzeichnis von Prof. Auwers im *Geographischen Jahrbuch*, dem *Nautical Almanac* oder der *American Ephemeris* entnommen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend gibt die »Korrektion der Sternzeit« die Differenz: Sternzeit im mittleren Ortsmittag minus Sternzeit im mittleren Greenwicher Mittag an.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297.0 berechnet.

Bei Berechnung von log ϱ ist die Seehöhe berücksichtigt.

Das Verzeichnis hat im vorliegenden Jahrgang Zusätze, bezw. Änderungen, für die Lagen folgender Sternwarten erfahren:

Frankfurt a. M. . . .	nach den Astron. Nachr.	Bd. 196 S. 183
Warschau (Univ. Stw.)	» » » »	Bd. 195 S. 199
Wellington (Hector Obs.)	» der New Zealand Gazette	1912 Febr. 29.

Außerdem sind die Seehöhen von Athen, Birr Castle, Bologna, Durham, Evanston, Glasgow Schottl., Hongkong, La Plata, O Gyalla, Quebec, Rugby und Stonyhurst nach dem Naut. Almanac 1915 und von Barcelona, Genua, Lussinpiccolo, Manila, Meudon und Providence nach der American Ephem. 1915 hinzugefügt.

Bahnelemente
und Oppositions-Ephemeriden

der

kleinen Planeten

für

1914

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
1 Ceres	Aug. 22	7.9	7.4	4.0	1913 Mai 5.0	d. Ep.	73° 53′ 9.3″	68° 40′ 32.5″
2 Pallas	Juli 14	9.3	8.0	4.5	1913 Mai 5.0	d. Ep.	71 39 31.7	309 0 47.9
3 Juno	—	—	8.7	5.5	1913 Sept. 10.0	d. Ep.	317 57 25.6	245 42 48.0
4 Vesta	Dez. 8	7.1	6.5	4.0	1857 Jan. 1.0*)	d. Ep.	198 20 2.8	147 10 40.2
5 Astraea	Juli 28	10.9	9.9	6.9	1898 Sept. 11.0	1910.0	224 4 1.2	353 28 9.3
6 Hebe	März 19	9.5	8.5	5.8	1900 Juli 3.0	1910.0	284 20 20.1	236 56 30.6
7 Iris	Dez. 24	7.3	8.4	5.8	1900 Jan. 0.0*)	1900.0	9 5 20.1	141 31 26.9
8 Flora	März 22	9.6	8.9	6.8	1848 Jan. 1.0*)	d. Ep.	35 52 49.3	282 38 15.6
9 Metis	März 28	9.1	8.9	6.3	1858 Juni 30.0	d. Ep.	57 4 34.7	2 32 16.9
10 Hygiea	—	—	9.5	5.4	1898 Dez. 20.0	1910.0	291 20 17.9	308 57 0.0
11 Parthenope	—	—	9.3	6.5	1901 Okt. 26.0	1910.0	65 58 42.7	193 25 55.1
12 Victoria	Juli 27	8.1	9.7	7.2	1851 Jan. 0.0*)	d. Ep.	66 2 39.9	66 4 43.3
13 Egeria	März 15	9.4	9.7	6.7	1850 Jan. 0.0	1850.0	210 47 6.0	76 57 55.6
14 Irene	Juli 27	10.0	9.7	6.6	1898 Okt. 1.0	1910.0	180 47 34.9	92 3 45.6
15 Eunomia	März 2	9.2	8.6	5.4	1900 Jan. 0.0	d. Ep.	14 28 19.8	93 58 1.2
16 Psyche	Juli 27	9.3	9.6	5.9	1899 Juli 27.0	1910.0	301 1 33.0	226 3 57.4
17 Thetis	Febr. 24	10.3	10.1	7.3	1911 Juli 26.0	1910.0	27 0 26.4	137 49 53.1
18 Melpomene	April 23	10.4	9.3	6.9	1854 Jan. 0.0*)	d. Ep.	80 4 37.0	225 1 41.3
19 Fortuna	—	—	9.8	7.1	1911 Jan. 27.0	1910.0	68 12 58.0	179 44 55.5
20 Massalia	April 11	9.2	9.2	6.5	1899 März 29.0	1910.0	76 24 22.5	253 47 7.4
21 Lutetia	—	—	10.1	7.4	1853 Jan. 2.0*)	1852.0	74 20 5.1	246 36 10.2
22 Kalliope	April 23	10.3	9.8	6.1	1898 Okt. 1.0	1910.0	96 34 37.0	351 57 0.4
23 Thalia	Juni 13	11.2	10.5	7.3	1900 Jan. 3.0	1910.0	337 2 2.1	56 0 12.2
24 Themis	März 3	10.1	10.8	6.7	1905 Juni 27.0	1900.0	170 16 40.3	105 42 2.7
25 Phocaea	—	—	10.5	7.9	1898 Aug. 2.0	1910.0	7 21 33.6	88 49 22.7
26 Proserpina	Juni 19	10.0	10.5	7.3	1913 Febr. 25.0	1910.0	277 17 11.3	190 42 15.8
27 Euterpe	Okt. 20	10.1	9.7	7.2	1873 Jan. 5.0*)	1870.0	90 32 27.0	354 8 6.0
28 Bellona	Febr. 16	9.2	10.1	6.6	1912 Okt. 28.0	1910.0	274 51 15.6	340 18 8.7
29 Amphitrite	—	—	9.0	6.1	1855 Jan. 0.0*)	1870.0	198 1 40.2	59 42 14.8
30 Urania	—	—	9.9	7.4	1890 Juni 5.0	1910.0	239 51 48.5	83 41 38.7
31 Euphrosyne	Juli 5	12.1	11.0	6.8	1899 Okt. 15.0	1910.0	327 7 12.3	60 23 44.4
32 Pomona	Jan. 14	10.5	10.6	7.5	1855 Jan. 5.0*)	d. Ep.	223 54 39.3	332 38 53.4
33 Polyhymnia	Jan. 18	12.6	11.8	8.2	1900 Jan. 0.0	1910.0	137 40 57.3	334 11 19.2
34 Circe	Okt. 1	11.9	11.5	8.2	1897 Dez. 5.0	1910.0	288 24 37.6	326 54 50.4
35 Leukothea	Okt. 1	13.2	12.2	8.3	1913 Aug. 4.0	1910.0	74 53 35.5	210 0 14.9
36 Atalante	Aug. 16	11.4	12.0	8.6	1912 April 21.5	1910.0	123 44 0	44 26 46.7
37 Fides	Juni 7	11.3	10.4	7.2	1913 März 17.0	1910.0	90 21 16.3	59 34 2.2
38 Leda	—	—	11.4	8.0	1897 Febr. 8.0	1910.0	31 52 32.7	166 10 19.4
39 Laetitia	Dez. 18	9.4	9.5	6.0	1897 Jan. 19.0	1910.0	111 43 50.9	205 28 15.6
40 Harmonia	April 3	9.5	9.2	6.9	1863 Jan. 0.0*)	d. Ep.	186 48 19.4	267 19 12.8

*) Mittlere Elemente

Ω	i	φ	μ	log a	Autorität
80° 45' 39.4"	10° 36' 55.9"	4° 23' 22.1"	770.7636"	0.4420569	Godward
172 56 47.8	34 42 2.5	13 46 37.9	769.2236	0.4426360	Farley
170 30 12.7	12 59 52.8	14 51 43.9	813.7734	0.4263354	Hind
103 23 20.1	7 8 6.2	5 6 4.4	977.63246	0.3732206	Leveau
141 39 24.5	5 20 3.2	11 1 8.5	858.1895	0.4109489	Farley
138 47 54.7	14 47 59.3	11 35 3.1	939.1860	0.3848366	R. Luther
260 33 44.3	5 28 1.2	13 20 50.2	962.5828	0.3777123	Riem
110 17 16.7	5 53 7.3	9 0 54.4	1086.3382	0.3426943	Downing
68 31 35.2	5 36 0.3	7 5 2.4	962.3390	0.3777857	Lesser
285 58 13.6	3 48 51.6	6 53 27.8	639.1669	0.4962615	E. Becker
125 23 31.9	4 37 51.4	5 44 1.0	923.9058	0.3895859	R. Luther
235 34 41.7	8 23 17.7	12 38 44.9	994.8347	0.3681705	Brünnow
43 11 37.6	16 32 24.3	4 59 48.7	857.9471	0.4110307	Samter
87 5 6.2	9 7 32.0	9 20 51.3	851.4287	0.4132389	Maywald
294 32 34.7	11 44 26.6	10 47 45.6	825.46059	0.4222069	Kamienstschikoff
150 39 24.8	3 4 25.9	7 50 18.3	710.5554	0.4656058	Schubert
125 8 54.2	5 36 33.4	7 40 4.2	913.55093	0.392849	Maywald
150 3 49.7	10 9 16.9	12 34 20.2	1020.1198	0.3609036	Schubert
211 14 7.0	1 32 59.8	9 7 17.0	929.98741	0.387686	Berberich
206 49 40.3	0 41 7.9	8 17 46.2	949.0005	0.3818268	Küstner
80 27 48.5	3 5 9.5	9 19 44.6	933.5544	0.3865780	Lesser
66 41 31.2	13 43 38.1	5 38 34.5	714.4288	0.4640317	Berberich
67 58 18.4	10 13 3.3	13 32 59.4	833.5369	0.4193879	Schubert
35 37 12.3	0 48 2.2	7 49 43.5	641.70063	0.4951161	Krueger
214 22 20.9	21 36 40.9	14 39 21.4	954.0992	0.3802754	Berberich
45 53 26.8	3 35 1.1	4 55 41.9	819.6392	0.424256	P. Neugebauer
93 51 20.1	1 35 30.4	10 0 56.0	986.6944	0.3705493	Hoppe
144 39 1.7	9 23 57.9	8 45 5.0	766.913	0.443507	v. d. Groeben
356 40 46.5	6 7 4.6	4 15 25.3	869.0352	0.4073128	E. Becker
308 25 1.9	2 6 2.7	7 21 5.1	975.3144	0.3739080	Günther
31 53 23.2	26 28 7.0	12 52 34.7	635.0803	0.4981187	Schubert
220 42 55.2	5 28 49.9	4 45 43.1	852.5880	0.4128449	Lesser
9 15 35.3	1 55 20.3	19 41 13.8	731.7057	0.4571134	Newcomb
184 58 12.9	5 27 21.7	6 4 35.9	805.6011	0.4292575	Auwers
355 3 19.7	8 4 55.2	12 53 12.7	683.7140	0.476755	Tietjen
359 15 7.6	18 36 44.0	17 26 19.0	779.3458	0.438851	Schubert
7 55 50.7	3 6 16.3	10 10 14.4	826.6670	0.421783	R. Luther
296 37 59.5	6 57 55.1	8 53 45.4	781.8518	0.4379215	Berberich
157 33 8.6	10 22 6.9	6 23 16.8	769.6407	0.4424791	Tietjen
93 34 54.2	4 15 48.4	2 40 13.6	1039.3353	0.3555006	Schubert

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
41 Daphne . .	Dez. 12	11.4	10.5	7.0	1897 Okt. 6.0	1910.0	338° 8′ 41″.4	41° 50′ 23″.8
42 Isis	Nov. 16	10.2	10.4	7.7	1910 Sept. 29.0	1910.0	38 28 10.7	234 56 28.5
43 Ariadne . .	Dez. 27	10.9	10.0	7.9	1897 Okt. 6.0	1910.0	80 15 48.4	13 58 23.0
44 Nysa	Juni 29	10.5	9.8	7.1	1911 Sept. 1.5	1910.0	250 50 0	340 33 5.3
45 Eugenia . .	—	—	10.7	7.3	1911 Mai 26.5	1910.0	26 55 0	82 43 5.7
46 Hestia . . .	Dez. 17	10.5	10.6	7.7	1910 Nov. 28.0	1910.0	68 8 1.2	173 7 5.8
47 Aglaja . . .	März 19	11.6	11.2	7.5	1913 Febr. 5.0	1910.0	151 10 19.5	312 8 50.7
48 Doris	—	—	10.9	6.8	1890 Sept. 13.0	1910.0	277 3 7.4	251 36 27.2
49 Pales	März 2	11.6	11.0	7.0	1911 Juli 21.5	1910.0	294 22 0	104 17 27.1
50 Virginia . .	—	—	11.7	8.5	1890 April 6.0	1910.0	191 39 42.2	196 47 34.7
51 Nemausa . .	Okt. 2	10.2	9.8	7.3	1889 Nov. 17.0	1910.0	254 26 43.1	358 30 22.4
52 Europa . . .	Juni 24	10.7	10.3	6.2	1912 Jan. 20.5	1910.0	2 40 0	335 59 4.0
53 Kalypso . .	Juni 12	12.5	11.5	8.4	1913 Febr. 25.0	1910.0	49 59 14.0	310 36 9.6
54 Alexandra .	Jan. 11	11.9	10.9	7.6	1884 Aug. 15.0	1910.0	316 55 13.5	341 53 36.7
55 Pandora . .	—	—	10.8	7.4	1911 März 19.5	1910.0	156 46 0.0	0 46 56.4
56 Melete . . .	Jan. 26	12.3	11.3	8.2	1900 Dez. 30.0	1910.0	157 16 2.5	101 6 0.1
57 Mnemosyne	Juli 6	10.9	10.7	6.5	1913 Juni 25.0	1910.0	184 0 11.2	207 1 55.0
58 Concordia .	Juni 18	11.5	11.6	8.3	1865 Jan. 7.0*)	d. Ep.	21 24 4.2	27 50 14.7
59 Elpis	Nov. 22	10.4	10.9	7.6	1865 Jan. 7.0	1910.0	334 18 57.1	207 58 24.0
60 Echo	April 7	11.0	11.1	8.5	1897 Okt. 6.0	1910.0	272 15 22.3	267 57 40.8
61 Danaë . . .	Jan. 27	11.6	11.0	7.1	1900 April 14.0	1910.0	244 20 50.4	8 27 28.4
62 Erato	Juni 17	12.8	12.3	8.2	1910 Nov. 21.5	1910.0	8 12 0.0	273 18 12.0
63 Ausonia . .	Sept. 9	9.7	9.9	7.3	1898 Febr. 3.0	1910.0	250 44 8.5	292 55 12.7
64 Angelina . .	April 23	10.4	10.5	7.2	1909 Febr. 1.5	1910.0	6 20 0.0	173 35 10.2
65 Cybele . . .	Sept. 19	11.1	11.0	6.4	1909 Dez. 23.0	1910.0	181 16 46.7	95 55 15.9
66 Maja	Juli 10	12.6	12.2	9.0	1897 Juli 18.0	1910.0	277 24 16.1	40 10 30.9
67 Asia	Juli 9	9.9	11.2	8.5	1897 Dez. 5.0	1910.0	201 20 50.1	103 20 15.8
68 Leto	Dez. 30	10.7	10.5	7.0	1913 Aug. 24.0	1910.0	347 3 57.4	301 0 38.8
69 Hesperia . .	Juli 6	11.5	10.7	6.8	1912 Jan. 19.5	1910.0	358 0 0	284 43 32.6
70 Panopaea .	—	—	10.9	7.8	1890 Dez. 22.0	1910.0	305 21 16.5	252 49 41.9
71 Niobe . . .	Jan. 3	11.2	10.7	7.3	1912 Okt. 8.0	1910.0	158 9 58.4	265 14 41.1
72 Feronia . .	—	—	11.2	8.9	1897 Dez. 25.0	1910.0	166 4 16.3	100 27 8.7
73 Klytia . . .	März 1	12.1	12.0	8.8	1898 Aug. 2.0	1910.0	244 29 53.1	52 42 38.5
74 Galatea . .	—	—	11.8	8.3	1911 März 19.5	1910.0	160 10 0.0	170 59 36.6
75 Eurydike . .	Juni 26	10.2	11.6	8.4	1897 Okt. 26.0	1910.0	32 23 13.9	335 34 7.7
76 Freia	—	—	12.0	7.4	1911 Juli 6.0	1910.0	222 10 32.0	235 24 48.2
77 Frigga . . .	Aug. 22	11.0	11.1	7.9	1897 Okt. 6.0	1910.0	331 13 52.7	56 51 43.2
78 Diana . . .	März 30	10.0	10.6	7.5	1914 April 1.0	1910.0	48 32 56.5	149 26 14.1
79 Eurynome .	—	—	10.5	7.8	1911 März 28.0	1910.0	129 21 59.1	198 40 13.2
80 Sappho . . .	—	—	10.6	8.2	1896 Okt. 11.0	1910.0	19 11 20.2	136 54 7.7

*) Mittlere Elemente

☊	i	φ	μ	log a	Autorität
179° 2′ 48″.7	15° 55′ 33″.5	15° 26′ 36″.4	770″.4586	0.4421715	Berberich
84 18 9.5	8 33 1.0	12 48 4.4	929.11108	0.3879594	L. Becker
264 53 57.0	3 27 42.6	9 38 32.6	1084.7577	0.3431159	Prey
131 22 43.4	3 42 0.7	8 48 10.9	941.7363	0.3840515	Powalky
148 15 53.9	6 35 18.5	4 44 11.6	791.0695	0.4345280	Richter
181 21 7.7	2 17 38.7	9 38 0.9	884.45090	0.4022219	Karlinski
3 52 51.9	5 0 28.7	7 28 40.7	725.2692	0.459672	P. Neugebauer
184 50 59.0	6 30 23.4	3 30 16.7	645.5014	0.4934063	Powalky
289 50 20.8	3 8 28.3	12 52 28.4	648.4530	0.4920854	Powalky
173 55 41.5	2 48 27.0	16 45 58.0	823.5561	0.4228757	Powalky
176 1 8.9	9 57 11.5	3 51 23.3	975.1593	0.3739540	Berberich
129 57 19.4	7 26 14.9	6 31 44.8	651.8134	0.4905889	Murmann
143 53 30.3	5 8 9.2	11 48 37.4	837.6982	0.417946	Tietjen
314 2 22.8	11 47 37.5	11 31 49.2	795.5362	0.4328978	Schultz
11 13 41.5	7 13 26.0	8 18 56.3	773.8612	0.4408957	A. Moeller
194 10 59.0	8 3 9.4	13 24 5.5	846.1114	0.4150527	R. Luther
200 4 0.8	15 11 43.0	6 38 15.5	634.7043	0.498290	Adolph
161 19 50.3	5 1 50.5	2 26 21.8	799.5964	0.4314238	Oppolzer
170 58 0.1	8 36 53.1	6 44 2.7	793.9788	0.4334651	Oppolzer
192 2 8.5	3 35 2.2	10 34 22.7	958.2244	0.3790263	C. H. F. Peters
334 23 28.2	18 15 3.1	9 29 23.8	688.3554	0.4747959	R. Luther
126 6 30.1	2 12 15.4	9 52 0.0	646.566	0.492929	Oppolzer
338 6 39.1	5 47 15.9	7 17 58.7	957.1671	0.3793459	Tietjen
311 1 40.8	1 19 37.6	7 17 59.7	807.9036	0.4284314	Oppolzer
158 50 52.9	3 28 52.3	5 45 43.0	557.40783	0.5358890	Fritsche
8 25 31.5	3 5 3.2	10 3 43.4	824.3940	0.422582	Maywald
203 4 10.5	5 59 10.5	10 47 54.5	942.3560	0.3838611	Frischauf
44 44 2.9	7 57 56.0	10 39 44.7	763.8870	0.444651	Th. Wolff
186 49 25.9	8 29 47.6	9 39 2.0	690.6731	0.4738227	Kowalczyk
48 23 54.9	11 38 23.5	10 22 15.9	838.9960	0.4174978	Richter
316 23 15.0	23 16 25.2	10 9 4.7	776.269	0.439996	P. Neugebauer
208 2 57.2	5 23 52.3	6 56 42.6	1040.3544	0.3552169	C. H. F. Peters
7 43 24.2	2 24 17.7	2 34 3.9	816.0117	0.4255401	Powalky
197 53 4.9	4 0 22.1	13 43 0.6	766.2730	0.4437487	Maywald
0 6 45.0	4 59 55.9	17 45 42.2	812.4299	0.4268137	Stockwell
212 4 0.9	2 3 7.8	9 58 25.8	564.54419	0.532206	Murmann
2 12 17.7	2 27 34.5	7 38 43.5	813.8298	0.4263153	Plath
333 49 59.3	8 40 6.1	11 53 8.8	836.2186	0.418458	v. Dubjago
206 38 50.2	4 35 55.8	10 59 25.5	927.85318	0.388352	Lachmann
218 49 35.1	8 37 17.6	11 34 29.9	1020.1089	0.3609067	P. V. Neugebauer

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
81 Terpsichore	Jan. 26	11.3	11.8	8.2	1912 Aug. 19.5	1910.0	305° 44′ 0″	46° 14′ 50″.5
82 Alkmene . .	Okt. 3	11.7	11.2	7.8	1914 Sept. 28.0	1910.0	257 33 25.0	107 42 15.8
83 Beatrix . . .	Febr. 28	10.9	11.3	8.6	1891 Jan. 11.0	1910.0	295 16 6.4	163 24 40.4
84 Klio	Jan. 15	12.0	11.3	8.8	1912 Juli 20.0	1910.0	322 38 37.1	12 43 40.4
85 Io	—	—	10.9	7.7	1889 Febr. 10.0	1910.0	180 9 35.1	120 16 17.9
86 Semele . . .	Sept. 12	11.3	12.4	8.3	1914 Sept. 8.5	1910.0	333 27 50	298 58 43
87 Sylvia . . .	Nov. 30	11.8	11.9	7.2	1909 April 8.5	1910.0	124 0 0	265 34 33.5
88 Thisbe . . .	—	—	10.8	7.4	1911 März 21.5	1910.0	244 40 0	30 50 45.1
89 Julia	April 7	10.9	10.1	7.1	1909 Jan. 31.5	1910.0	124 11 0.0	42 50 18.7
90 Antiope . .	Febr. 21	12.3	11.6	7.5	1912 Dez. 7.0	1910.0	134 29 1.2	236 50 48.2
91 Aegina . . .	März 29	10.9	10.8	7.7	1897 Febr. 8.0	1910.0	54 32 6.9	71 55 32.8
92 Undina . . .	Dez. 12	11.1	10.9	6.7	1904 Febr. 13.0	1910.0	142 28 50.2	220 34 12.4
93 Minerva . .	—	—	10.8	7.4	1875 Jan. 0.0	1875.0	278 31 39	269 44 33
94 Aurora . . .	Jan. 5	11.0	11.3	7.1	1883 Juli 12.0	1910.0	256 3 4.3	45 22 37.9
95 Arethusa . .	Juni 27	11.5	11.3	7.3	1913 April 26.0	1910.0	182 30 40.6	148 12 54.4
96 Aegle . . .	Nov. 2	11.7	11.4	7.4	1912 Juni 30.5	1910.0	98 23 40	200 34 30.1
97 Klotho . . .	Sept. 26	9.6	10.6	7.4	1912 April 15.5	1910.0	118 5 0	264 36 8.8
98 Ianthe . . .	Sept. 20	13.4	12.7	9.4	1894 Jan. 15.0	1910.0	331 2 34.3	154 49 36.4
99 Dike			14	10.5	1868 Juni 5.0	1910.0	350 36 11	198 52 56
100 Hekate . . .	—	—	11.9	7.8	1911 Juni 9.5	1910.0	323 25 0.0	176 49 53.2
101 Helena . . .	Okt. 30	10.4	10.7	7.6	1877 Dez. 10.0	1880.0	99 46 33	343 57 7
102 Miriam . . .	März 14	13.9	12.6	9.4	1898 Juli 13.0	1910.0	319 11 42.8	143 38 29.9
103 Hera	—	—	10.2	6.9	1895 Nov. 26.0	1895.0	76 9 2	185 15 25
104 Klymene . .	—	—	12.2	8.0	1897 Dez. 25.0	1910.0	35 9 54.6	20 0 49.1
105 Artemis . .	Jan. 6	11.8	11.1	8.5	1896 Nov. 20.0*)	1900.0	353 59 41	54 48 51
106 Dione . . .	—	—	11.3	7.2	1910 Febr. 21.0	1910.0	108 23 21.0	324 54 49.2
107 Camilla . . .	Nov. 29	10.9	11.2	6.5	1911 Mai 19.5	1910.0	126 6 0	293 57 59.6
108 Hecuba . . .	—	—	11.7	7.4	1911 Sept. 24.0	1910.0	159 37 59.5	172 26 42.4
109 Felicitas . .	—	—	12.0	8.7	1911 April 18.5	1910.0	113 52 0.0	52 23 6.6
110 Lydia . . .	—	—	10.5	7.1	1901 Febr. 13.0	1910.0	150 32 10.1	281 13 26.2
111 Ate	Jan. 6	10.7	11.3	8.2	1911 Mai 25.5	1910.0	130 13 0.0	163 34 48.8
112 Iphigenia .	März 1	12.3	11.5	8.8	1897 Dez. 25.0	1910.0	88 12 11.4	14 7 51.7
113 Amalthea .	—	—	11.0	8.4	1914 Dez. 27.0	1910.0	323 53 44.9	76 0 33.7
114 Kassandra .	Juni 4	11.1	11.1	7.8	1889 Sept. 18.0	1910.0	211 30 3.4	348 48 30.0
115 Thyra . . .	April 15	10.6	10.4	7.8	1890 Jan. 0.0*)	1900.0	299 31 42	94 15 37
116 Sirona . . .	—	—	10.7	7.3	1911 Mai 25.5	1910.0	71 42 0	90 3 0
117 Lomia . . .	—	—	11.4	7.5	1897 Okt. 6.0	1910.0	332 35 55.4	48 38 20.1
118 Peitho . . .	April 5	11.1	10.8	8.1	1911 Juli 6.0	1910.0	196 18 53.3	31 17 7.0
119 Althaea . .	Juni 4	10.7	10.6	7.5	1894 Aug. 23.0	1894.0	332 43 50	168 2 24
120 Lachesis . .	Dez. 31	11.9	11.7	7.6	1897 Nov. 15.0	1910.0	202 19 20.3	238 31 10.8

*) Mittlere Elemente

Ω	i	φ	μ	log a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
2 34 20.8	7 55 5.5	12 11 52.3	736.4126	0.4552569	Maywald
26 10 41.8	2 50 48.8	12 58 27.7	774.10776	0.4408034	W. Luther
27 47 22.4	4 59 49.4	4 51 24.3	935.9122	0.3858476	E. Becker
327 27 57.6	9 21 31.5	13 40 39.5	977.317	0.373314	P. Neugebauer
203 55 21.1	11 53 47.5	11 10 33.7	821.0524	0.4237571	v. d. Groeben
87 52 34	4 46 52	12 19 7	646.80	0.49282	Riem
75 15 57.6	10 53 1.7	5 26 44.5	545.3288	0.5422321	v. d. Groeben
277 51 59.5	5 14 54.8	9 26 6.4	771.1774	0.4419015	Kowalczyk
312 0 55.5	16 12 32.0	10 33 29.3	870.7645	0.4067372	Th. Wolff
70 49 29.5	2 15 27.2	8 47 49.6	632.352	0.499365	Maywald
11 4 13.0	2 8 25.1	6 7 10.0	850.8763	0.4134268	Heuer
102 50 42.0	9 56 23.7	5 22 41.6	622.67957	0.5038280	Anderson
5 7 8	8 36 20	8 4 54	775.9214	0.44013	Leuschner
4 33 17.4	8 4 18.6	4 44 18.3	630.6584	0.5001416	Leppig
244 5 40.3	12 55 47.5	8 52 30.8	661.6186	0.486266	Schur
322 47 10.3	16 2 24.5	7 39 35.3	663.1502	0.4855965	Schulhof
160 57 9.4	11 45 29.3	14 51 9.7	813.5778	0.4264050	Maywald
354 27 5.1	15 33 47.6	10 49 11.3	805.3086	0.4293629	Riem
42 17 51	13 53 30	13 47 30	758.662	0.44664	Loewy u. Tisserand
128 26 39.4	6 23 7.5	9 16 58.5	651.5823	0.4906916	Stark
343 39 43	10 9 51	7 55 16	854.4377	0.41222	Leuschner
211 39 13.0	5 5 24.5	14 44 31.2	817.8380	0.4248929	C. H. F. Peters
136 12 23	5 24 39	4 34 6	798.6939	0.43175	Leuschner
43 13 29.2	2 52 54.6	8 32 48.6	632.5948	0.4992540	Berberich
188 7 15	21 30 0	10 6 12	970.4380	0.37536	Leuschner
63 10 51.0	4 35 55.0	9 14 4.3	625.17474	0.5026701	Berberich
176 14 1.0	9 51 39.6	3 56 39.0	544.1827	0.5428412	Matthiessen
352 27 26.5	4 23 34.1	6 1 26.9	617.91149	0.506054	Schulhof
4 42 21.8	8 1 1.3	17 12 53.0	801.8088	0.4306238	v. d. Groeben
57 14 3.9	5 59 12.9	4 32 38.7	785.37505	0.436620	Sternberg
306 39 51.1	4 56 20.2	5 58 35.2	849.4712	0.4139053	Holetschek
324 13 23.0	2 37 9.3	7 25 29.0	934.8048	0.3861905	Tietjen
123 16 26.8	5 2 23.9	5 0 51.8	968.73923	0.3758665	W. Luther
164 40 55.6	4 53 53.8	7 55 32.6	810.5220	0.4274945	Anton
309 12 2	11 35 8	11 6 59	966.3084	0.37659	Leuschner
64 42 11.5	3 35 10.3	7 57 30	769.3736	0.4425795	H. Oppenheim
349 41 19.0	14 56 21.2	1 31 51.9	685.2178	0.4761187	Tietjen
47 40 5.0	7 46 40.4	9 27 2.0	932.77693	0.386819	Holetschek
203 54 3	5 43 54	4 36 2	855.4057	0.41189	Leuschner
342 45 48.8	7 0 16.6	3 30 1.0	645.4399	0.4934339	Plath

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
121 Hermione . .	—	—	11.2	6.6	1910 April 22.0	1910.0	222° 43′ 6″.5	285° 25′ 49″.8
122 Gerda	Dez. 4	11.5	11.5	7.2	1911 Mai 7.0	1910.0	24 32 10.8	11 7 46.8
123 Brunhild . .	Jan. 18	11.3	11.8	8.5	1900 April 24.5*)	1910.0	0 39 10.7	121 44 28.5
124 Alkeste . . .	Juni 1	9.8	10.3	7.1	1911 Okt. 29.5	1910.0	144 20 0	58 14 32.3
125 Liberatrix. .	Dez. 29	11.6	11.2	7.8	1897 Jan. 19.0	1910.0	202 46 5.6	104 32 55.5
126 Velleda . . .	Nov. 12	11.2	11.5	8.8	1899 Dez. 15.0	1910.0	81 58 56.5	325 47 25.0
127 Johanna . .	—	—	10.5	7.1	1912 Juli 10.5	1910.0	164 25 49	90 26 21.5
128 Nemesis . .	—	—	10.6	7.2	1896 Juli 3.0*)	1900.0	101 41 9	299 56 32
129 Antigone . .	Okt. 22	11.0	10.3	6.6	1912 Febr. 11.5	1910.0	287 24 0	103 42 26.3
130 Elektra . . .	Juli 19	10.2	10.6	6.5	1898 Aug. 22.0	1910.0	337 5 55.3	233 46 1.6
131 Vala	Febr. 11	12.1	12.2	9.5	1898 Dez. 20.0	1910.0	288 37 28.9	155 56 24.1
132 Aethra . . .			10.9	8.0	1895 Nov. 30.5	1910.0	330 47 37.2	252 14 56.3
133 Cyrene . . .	Febr. 19	11.3	11.3	7.3	1896 Dez. 10.0*)	1900.0	204 8 9	285 19 53
134 Sophrosyne .	Sept. 19	10.8	11.1	8.1	1913 Juni 5.0	1910.0	187 50 17.6	82 15 15.8
135 Hertha . . .	—	—	10.5	7.8	1898 Okt. 1.0	1910.0	33 3 56.2	337 7 56.5
136 Austria . . .	—	—	11.2	8.9	1898 März 15.0	1910.0	211 14 20.2	130 28 54.5
137 Meliboea . .	Okt. 3	11.0	11.8	7.7	1898 Nov. 10.0	1910.0	80 12 0.8	105 35 51.7
138 Tolosa . . .	—	—	11.8	9.1	1909 Sept. 20.5	1910.0	27 13 0	258 3 38.4
139 Juewa	Mai 22	10.4	10.9	7.4	1897 Jan. 29.0*)	1900.0	155 29 57	162 12 34
140 Siwa	Juli 3	10.0	11.4	8.0	1910 Febr. 16.0	1910.0	358 21 3.0	194 40 43.2
141 Lumen . . .	Febr. 4	11.8	11.4	8.2	1890 Aug. 24.0	1910.0	321 2 54.7	54 13 35.4
142 Polana . . .	Sept. 7	12.5	12.2	9.5	1896 Dez. 10.0	1910.0	211 12 47.7	289 58 40.0
143 Adria	Okt. 19	12.8	12.4	9.0	1891 Okt. 18.0	1910.0	160 45 41.3	248 47 46.1
144 Vibilia . . .	Juni 17	10.7	10.7	7.5	1912 Febr. 7.5	1910.0	89 10 0	290 45 10.7
145 Adeona . . .	Mai 13	11.5	11.3	8.1	1898 Aug. 22.0	1910.0	240 12 41.7	40 33 3.5
146 Lucina . . .	Jan. 7	11.2	11.1	7.7	1898 Aug. 2.0	1910.0	89 1 10.2	140 57 36.7
147 Protogeneia .	Aug. 1	12.4	12.5	8.4	1898 Sept. 11.0	1910.0	348 52 58.8	122 45 45.6
148 Gallia	Jan. 30	10.9	11.0	7.5	1910 April 2.0	1910.0	135 1 22.3	251 2 43.2
149 Medusa . . .	Dez. 21	11.7	12.9	10.0	1910 Juli 31.0	1910.0	262 49 18.4	249 52 9.4
150 Nuwa	März 18	12.2	11.6	7.7	1911 Okt. 13.5	1910.0	14 30 0	146 41 42.7
151 Abundantia	—	—	11.9	8.8	1898 März 15.0	1910.0	9 18 20.9	130 21 2.4
152 Atala	Nov. 7	11.9	12.2	8.1	1911 März 28.5	1910.0	92 16 0.0	42 56 33.6
153 Hilda	Okt. 21	12.9	12.6	7.3	1911 März 28.0	1910.0	285 17 29.0	54 13 51.1
154 Bertha . . .	Sept. 18	11.6	11.2	7.0	1910 Dez. 18.0	1910.0	260 14 33.6	164 40 8.3
155 Scylla			13.5	9.8	1875 Nov. 8.5	1910.0	339 4 47	39 9 57
156 Xanthippe .	Juni 29	10.4	11.3	7.9	1903 Jan. 29.0	1900.0	210 16 9.4	334 33 43.4
157 Dejanira . .	April 12	13.4	13.7	10.6	1904 Nov. 17.5	1904.0	330 35 43.9	45 39 12.1
158 Koronis . . .	—	—	12.3	8.7	1898 Aug. 22.0	1910.0	278 50 53.8	138 43 15.9
159 Aemilia . . .	—	—	12.3	8.2	1897 Dez. 5.0	1910.0	324 40 17.3	331 52 54.3
160 Una	Aug. 28	11.7	11.8	8.4	1912 Febr. 9.5	1910.0	81 30 0	46 47 30.1

*) Mittlere Elemente

☊	i	φ	μ	log a	Autorität
75° 41′ 3″.6	7° 33′ 28″.8	8° 15′ 19″.1	555″.12285	0.5370783	Berberich
178 46 22.6	1 36 36.0	3 11 10.4	614.37381	0.507714	Lange
308 34 59.7	6 25 0.9	6 57 45.0	801.9724	0.430565	Strömberg, Hernlund
188 37 15.4	2 55 29.2	4 27 41.2	832.2976	0.4198186	Hall sen.
169 36 18.8	4 37 57.0	4 29 45.0	780.9349	0.4382611	Lange
23 27 7.7	2 56 26.5	6 3 52.3	931.5192	0.3872099	Heuer
31 53 43.8	8 15 42.7	3 47 29.9	775.8987	0.4401344	Maywald
76 39 30	6 15 18	7 16 50	777.8761	0.43940	Leuschner
137 58 12.8	12 10 1.8	12 15 18.0	729.5585	0.4579643	Austin
146 16 41.6	22 58 1.8	12 29 21.9	646.4298	0.4929901	Powalky
65 37 21.8	4 57 47.1	3 51 52.5	935.8550	0.3858654	Berberich
260 11 30.0	23 32 20.0	19 21 13.8	903.6882	0.3959920	W. Luther
321 10 39	7 13 53	7 49 26	661.6605	0.48625	Leuschner
346 11 29.2	11 36 45.1	6 39 4.4	864.0573	0.408976	Maywald
344 13 36.6	2 18 34.4	11 45 17.6	937.0637	0.3854917	Maywald
186 20 58.5	9 33 12.0	4 52 0.8	1025.7532	0.3593092	H. Oppenheim
203 47 40.2	13 21 7.8	12 46 22.0	645.4607	0.4934245	Lange
54 53 56.5	3 13 22.0	9 20 0.0	924.9117	0.3892709	v. d. Groeben
2 27 38	10 55 12	10 2 40	764.1684	0.44454	Leuschner
107 10 19.2	3 11 21.2	12 29 27.4	785.1904	0.4366877	v. d. Groeben
319 28 26.5	11 58 39.3	12 16 57.4	814.6615	0.4260196	Berberich
292 1 39.9	2 14 29.1	7 44 10.6	943.5246	0.3835023	L. Becker
333 54 46.0	11 30 13.3	4 8 20.2	773.3958	0.4410699	von Haerdtl
77 1 15.3	4 48 16.9	13 28 14.3	819.4849	0.4243104	Powalky
77 55 52.9	12 41 10.3	8 24 20.6	812.2212	0.4268882	Tietjen
84 26 43.8	13 5 8.8	3 39 14.6	791.4186	0.4344003	Berberich
251 21 33.7	1 54 15.5	2 2 8.6	638.8069	0.4964247	L. Becker
145 15 21.7	25 19 6.9	10 34 1.9	767.77183	0.4432035	L. Becker
158 47 35.8	0 55 46.4	3 52 47.6	1106.37588	0.3374026	Lange
207 50 0.6	2 8 18.4	7 20 7.3	687.7534	0.475049	H. Oppenheim
39 1 12.0	6 28 21.2	2 10 51.3	850.1245	0.4136827	Riem
41 5 0.5	12 13 21.2	4 12 12.4	637.2000	0.4971539	Lange
228 20 11.4	7 51 56.0	9 19 1.0	449.45588	0.598213	Kühnert
37 7 16.3	20 58 23.8	5 2 23.5	624.40618	0.5030263	Anton
43 20 30	14 4 31	14 49 28	713.7875	0.464292	Schulhof
242 43 10.3	9 39 1.8	12 55 24.2	785.6858	0.436505	Ebell
62 9 28.7	12 5 20.1	11 30 39.9	856.508	0.411518	Sternberg
281 12 13.9	1 0 0.7	3 17 38.9	730.4848	0.4575969	Maywald
135 12 3.7	6 4 55.0	5 37 45.9	647.4107	0.492551	Berberich
9 24 54.3	3 51 22.4	3 45 8.1	787.7290	0.435753	P. Neugebauer

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
161 Athor	Nov. 24	11.2	11.0	8.4	1896 April 14.0*)	1900.0	72° 49′ 13″	291° 46′ 24″
162 Laurentia . .	Aug. 2	13.2	12.3	8.4	1912 Febr. 7.5	1910.0	347 0 0	106 2 42.9
163 Erigone . . .	Okt. 8	11.2	11.5	9.0	1907 Nov. 4.0	1910.0	334 40 45.7	295 29 18.5
164 Eva	Mai 4	12.6	11.5	8.3	1910 Juni 1.0	1910.0	274 53 39.9	282 17 32.6
165 Loreley . . .	Mai 26	10.8	11.1	7.0	1911 Dez. 25.5	1910.0	167 9 0	342 30 12.7
166 Rhodope . . .	April 4	13.5	12.5	9.2	1911 Juli 18.5	1910.0	287 18 36	261 28 49.8
167 Urda	Juni 24	12.8	13.0	9.4	1898 Jan. 14.0	1910.0	197 17 5.7	121 7 43.9
168 Sibylla	Nov. 30	11.3	11.6	7.1	1899 Mai 29.0	1910.0	218 22 50.2	174 26 31.9
169 Zelia	Jan. 16	11.9	11.3	8.8	1890 Aug. 4.0	1910.0	328 1 8.3	332 10 48.8
170 Maria	Febr. 22	11.5	11.7	8.7	1910 März 13.0	1910.0	66 0 9.6	156 19 5.9
171 Ophelia . . .	Nov. 1	12.3	12.1	8.0	1911 März 31.5	1910.0	27 40 0	50 27 33.1
172 Baucis	März 19	10.9	10.4	7.8	1889 Juni 30.0	1910.0	316 43 41.4	356 48 28.3
173 Ino	Dez. 17	10.5	11.0	7.6	1897 Jan. 19.0	1910.0	71 13 19.6	224 39 41.9
174 Phaedra . . .	Febr. 16	11.8	11.6	8.0	1893 Nov. 16.0*)	1900.0	201 5 28	286 3 40
175 Andromache	Jan. 7	12.9	12.3	8.0	1914 Jan. 11.0	1910.0	119 51 57.4	305 24 5.1
176 Iduna	März 18	12.9	12.1	7.9	1910 Juli 11.0	1910.0	271 34 16.1	182 41 34.5
177 Irma	Nov. 22	11.2	12.4	9.0	1897 Jan. 19.0	1910.0	71 42 48.0	33 16 9.9
178 Belisana . . .	April 1	11.9	12.0	9.2	1910 März 13.0	1910.0	273 56 20.5	212 28 52.4
179 Klytæmnestra	—	—	11.5	7.7	1893 Sept. 17.0*)	1900.0	89 22 45	100 51 48
180 Garumna . .	Febr. 12	12.2	13.3	9.9	1899 Nov. 5.0	1910.0	308 53 34.6	169 12 38.1
181 Eucharis . .	Aug. 25	11.9	11.5	7.4	1887 Okt. 19.0	1910.0	305 49 36.6	310 26 20.5
182 Elsa	Nov. 7	9.7	11.0	8.3	1897 März 20.0	1910.0	102 51 45.1	308 16 41.4
183 Istria	Dez. 18	10.7	12.6	9.1	1900 Dez. 10.0	1910.0	15 39 20.2	262 21 44.2
184 Dejopeja. . .	Aug. 3	12.6	12.4	8.2	1910 Dez. 18.0	1910.0	244 34 37.1	217 10 44.9
185 Eunike . . .	Febr. 6	10.3	10.0	6.6	1889 Aug. 29.0	1910.0	328 9 2.3	221 34 37.8
186 Celuta	März 9	12.2	11.4	8.9	1897 Aug. 27.0	1910.0	2 39 38.6	313 36 27.2
187 Lamberta . .	März 15	10.1	11.4	8.0	1897 Aug. 27.0	1910.0	94 42 30.1	192 2 46.6
188 Menippe . . .	März 7	13.6	13.0	9.6	1897 Sept. 1.0	1910.0	23 1 52.2	66 36 36.3
189 Phthia	—	—	11.5	8.8	1912 Juli 20.5	1910.0	295 2 47	166 0 10.0
190 Ismene . . .	Mai 30	12.6	12.0	6.7	1910 Nov. 8.0	1910.0	327 17 17.8	286 44 42.4
191 Kolga	—	—	12.0	8.3	1897 Juli 18.0	1910.0	271 52 28.4	224 21 12.1
192 Nausikaa . .	Juli 30	8.3	9.3	6.7	1888 Juli 25.0	1910.0	324 20 18.4	27 40 24.5
193 Ambrosia . .			12.2	9.2	1879 März 1.5	1910.0	63 50 16.0	77 7 21.5
194 Prokne . . .	Sept. 20	9.1	10.5	7.4	1899 Jan. 29.0	1910.0	130 9 24.2	160 37 18.4
195 Eurykleia . .	Juni 27	12.7	12.6	8.9	1911 Dez. 15.5	1910.0	319 32 44	118 7 2.1
196 Philomela . .	Sept. 21	10.3	10.3	6.3	1901 April 9.0	1910.0	240 25 11.6	237 19 45.5
197 Arete	Febr. 9	13.5	12.7	9.3	1900 Jan. 24.0	1910.0	134 40 9.5	243 28 47.4
198 Ampella . . .	Juli 25	9.9	11.1	8.3	1910 Juli 31.0	1910.0	314 11 54.5	88 1 12.0
199 Byblis	Okt. 15	12.6	12.4	8.2	1909 Nov. 13.0	1910.0	138 47 14.4	171 8 9.7
200 Dynamene . .	April 23	11.9	11.3	7.9	1911 Aug. 26.5	1910.0	312 12 0	82 43 1.3

*) Mittlere Elemente

☊	i	φ	μ	log a	Autorität
18° 39′ 54″	9° 3′ 26″	7° 57′ 47″	966.″6573	0.37649	Leuschner
38 16 1.8	6 5 6.0	10 31 5.3	676.5719	0.4797951	Tietjen
160 15 7.2	4 46 38.3	11 1 54.1	974.2162	0.3742342	Berberich
77 25 24.6	24 20 38.1	20 22 0.7	830.75127	0.4205237	Richter
304 11 19.1	11 12 5.0	3 54 10.6	639.5300	0.4960971	Samter
129 39 27.9	12 1 54.8	12 13 13.9	806.7683	0.4288385	Richter
166 38 10.8	2 10 45.6	1 59 3.7	736.5954	0.4551851	Lange
209 23 56.1	4 36 6.5	4 21 54.0	571.6864	0.5285658	v. d. Groeben
354 58 8.5	5 30 51.2	7 31 33.7	979.6462	0.3726249	Richter
301 23 56.1	14 21 9.7	3 38 8.4	868.72749	0.4074153	Lange
101 3 53.7	2 33 12.1	6 53 0.0	637.0859	0.497205	Berberich
332 11 35.0	10 2 10.4	6 32 18.8	965.9899	0.3766893	Berberich
148 53 6.9	14 15 36.8	11 51 44.6	780.8006	0.4383110	Bečka
328 42 26	12 7 3	8 18 11	733.4324	0.45643	Leuschner
25 5 35.4	3 10 42.2	10 46 40.1	609.5741	0.5099867	Berberich
200 57 12.2	22 43 20.2	10 16 21.6	628.26359	0.5012431	P. Neugebauer
349 34 1.8	1 26 55.3	13 32 58.0	768.8406	0.4427802	Richter
51 1 8.7	1 54 28.5	2 34 36.4	919.16707	0.3910715	Berberich
253 17 5	7 47 18	6 26 14	692.2030	0.47318	Leuschner
314 50 1.1	0 53 40.8	9 46 17.7	790.4612	0.4347507	v. d. Groeben
145 7 22.1	18 35 23.6	12 40 26.5	643.5438	0.4942856	de Ball
106 46 38.9	2 10 9.1	10 50 51.9	944.5132	0.3831990	Samter
142 54 44.3	26 25 59.5	20 27 8.2	760.4634	0.4459522	Petrelius
333 48 39.4	1 9 53.4	3 28 22.0	622.48092	0.5039204	Thraen
154 3 8.4	23 14 21.7	7 11 14.1	782.8522	0.4375512	Bauschinger
14 43 53.5	13 11 11.6	8 41 21.3	977.5884	0.3732337	Tietjen
22 22 32.4	10 41 24.8	13 36 43.5	785.6152	0.4365311	A. Leman
241 56 25.8	11 44 36.3	10 15 28.9	772.712	0.441326	Coniel
203 32 11.1	5 8 54.2	2 4 18.4	924.2246	0.3894861	H. Oppenheim
177 0 17.4	6 8 17.0	9 38 10.0	453.68733	0.5955000	Küstner
159 59 7.7	11 29 25.6	5 13 5.0	720.0541	0.4617609	L. Becker
343 33 25.4	6 51 40.6	14 9 22.7	952.4502	0.3807762	Lange
351 35 7.0	12 12 21.1	17 29 23.6	843.429	0.415972	Berberich
159 29 8.2	18 25 4.9	13 50 55.7	839.1447	0.4174465	Tietjen
7 52 26.6	7 0 9.8	2 25 31.9	727.0481	0.4589623	Riem
73 27 31.0	7 17 1.5	1 13 48.1	646.0377	0.4931658	P. V. Neugebauer
82 10 10.5	8 49 20.8	9 22 12.5	782.6498	0.4376261	Lange
268 24 5.6	9 18 6.5	13 8 54.7	920.04801	0.3907974	v. d. Groeben
89 40 27.7	15 24 49.2	10 31 43.7	630.79505	0.5000789	Tietjen
325 35 38.5	6 54 46.3	7 41 20.4	783.2517	0.437403	Bauschinger

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
201 Penelope . .	Aug. 9	10.7	11.9	8.6	1897 Nov. 15.0	1910.0	53° 1′ 33.″0	177° 43′ 4.″8
202 Chryseïs . .	Febr. 14	10.1	10.7	6.7	1901 Okt. 26.0	1900.0	266 57 1.8	354 20 29.1
203 Pompeja . .	Mai 29	12.0	11.7	8.3	1909 April 22.5	1910.0	163 4 0	53 43 25.2
204 Kallisto . . .	Okt. 29	12.5	12.0	8.7	1912 März 9.5	1910.0	266 0 0	51 16 26.1
205 Martha . . .	März 28	12.8	12.7	9.2	1911 Sept. 2.5	1910.0	323 15 0	172 8 41.4
206 Hersilia . . .	Juni 1	12.2	12.0	8.6	1910 Juli 15.5	1910.0	214 38 0	300 24 35.6
207 Hedda . . .	—	—	11.8	9.5	1898 Febr. 3.0	1910.0	280 15 16.2	190 38 50.0
208 Lacrimosa . .	Dez. 21	12.0	12.1	8.4	1901 Febr. 28.0	1900.0	48 1 1.4	105 15 3.3
209 Dido	—	—	11.5	7.4	1912 Sept. 18.5	1910.0	92 33 0	249 39 35.2
210 Isabella . . .	Juli 11	12.7	12.5	9.1	1901 Sept. 16.0	1900.0	308 49 2.6	11 45 5.7
211 Isolda	Juni 6	12.2	11.5	7.5	1912 Jan. 14.5	1910.0	16 45 0	170 41 36.4
212 Medea	Mai 4	12.7	12.2	8.1	1899 Juli 28.0	1910.0	276 2 57.4	101 16 7.9
213 Lilaea	Nov. 5	12.0	11.7	8.3	1909 Sept. 21.5	1910.0	60 42 50.0	158 35 27.9
214 Aschera . . .	April 6	12.1	12.1	9.0	1897 April 9.0	1910.0	72 5 59.3	128 5 43.8
215 Oenone . . .	Okt. 29	12.6	12.7	9.3	1912 März 22.5	1910.0	209 5 16	314 6 30.5
216 Kleopatra . .	Juni 28	10.4	10.1	6.6	1910 Okt. 7.5	1910.0	346 26 5.2	176 51 54
217 Eudora . . .	Aug. 16	11.0	13.1	9.5	1912 Febr. 2.5	1910.0	177 50 0	150 32 44.9
218 Bianca . . .	Mai 25	10.8	11.4	8.2	1910 Juli 15.5	1910.0	50 15 33	58 48 58.8
219 Thusnelda .	Jan. 1	11.8	11.2	8.8	1889 Jan. 21.0	1910.0	130 33 20.7	140 3 44.8
220 Stephania . .			13.6	11.0	1887 Jan. 0.5	1910.0	131 12 41.6	75 7 33.9
221 Eos	März 31	11.7	11.3	7.4	1898 März 15.0	1910.0	201 46 0.0	188 0 19.7
222 Lucia	—	—	12.9	8.8	1899 März 30.0	1910.0	304 15 56.6	175 35 51.9
223 Rosa	—	—	13.3	9.2	1891 Dez. 17.0	1910.0	333 23 9.3	58 28 30.7
224 Oceana . . .	Nov. 12	11.9	11.7	8.5	1890 Febr. 5.0	1910.0	225 24 48.8	276 55 27.0
225 Henrietta . .	Juni 13	11.3	12.7	8.2	1903 Nov. 5.0	1910.0	88 41 26.8	97 37 49.8
226 Weringia . .	Nov. 15	13.5	13.0	9.7	1891 Aug. 19.0	1910.0	30 52 14.2	150 8 45.9
227 Philosophia .	März 3	12.1	12.9	8.7	1896 Dez. 10.0	1910.0	283 51 33.6	254 29 42.9
228 Agathe . . .	März 31	15.3	14.5	12.4	1908 Juli 25.5	1910.0	336 33 30	16 2 37.2
229 Adelinda . .	Okt. 8	12.8	13.5	8.9	1908 Okt. 26.5	1910.0	51 30 54.4	303 18 41.0
230 Athamantis .	April 5	10.7	10.3	7.7	1897 Okt. 26.0	1910.0	11 22 17.7	137 12 47.9
231 Vindobona .	—	—	12.4	8.6	1898 Nov. 10.0	1910.0	164 53 38.2	263 38 46.4
232 Russia . . .	Dez. 4	13.9	13.4	10.4	1901 Sept. 16.0	1910.0	159 56 8.4	48 35 13.8
233 Asterope . .	Juli 10	10.9	11.3	8.1	1897 Aug. 27.0	1910.0	353 18 46.2	122 35 34.5
234 Barbara . . .	—	—	11.7	9.1	1898 Okt. 21.0	1910.0	33 57 10.0	190 6 58.4
235 Carolina . .	Jan. 7	12.5	12.2	8.5	1897 Sept. 16.0	1910.0	73 32 29.3	207 24 29.7
236 Honoria . . .	Nov. 24	10.7	11.4	7.9	1912 April 5.5	1910.0	202 23 0	170 30 20.7
237 Coelestina . .	—	—	12.8	9.4	1911 März 22.5	1910.0	275 30 0	196 24 38.6
238 Hypatia . . .	Sept. 27	11.2	11.7	8.0	1900 Dez. 10.0	1910.0	54 45 6.4	207 2 40.9
239 Adrastea . .	Juni 11	14.6	14.0	10.2	1900 Dez. 10.0	1910.0	26 23 21.4	206 1 9.9
240 Vanadis . .	Juli 11	13.0	12.5	9.3	1912 Febr. 16.5	1910.0	58 12 0	298 17 15.6

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° ′ ″	° ′ ″	° ′ ″	″		
157 17 30.2	5 43 18.9	10 25 23.2	809.8362	0.4277396	Bauschinger
137 45 45.4	8 49 13.8	6 0 29.7	659.7604	0.4870802	Berberich
348 46 40.3	3 12 19.7	3 28 22.8	783.8434	0.4371849	Berberich
206 2 34.8	8 17 3.5	9 51 34.4	812.2343	0.4268835	A. Palisa
212 34 39.7	10 39 53.8	1 54 54.4	765.9190	0.4438825	Küstner
145 33 33.3	3 45 25.4	2 19 59.5	781.8154	0.437935	Stechert
29 5 52.3	3 49 3.8	1 39 3.3	1027.9888	0.3586788	Richter
5 26 27.5	1 47 19.2	0 52 56.3	721.4077	0.4612172	Berberich
2 8 19.7	7 14 33.2	3 46 48.4	636.9842	0.4972519	Bauschinger
33 4 45.2	5 17 20.7	7 0 36.5	790.2203	0.4348389	Berberich
265 28 46.4	3 52 0.2	9 15 38.8	669.000	0.4830537	Bauschinger
315 15 56.5	4 16 54.7	6 40 42.2	647.3973	0.4925571	L. Becker
122 36 4.4	6 46 27.7	8 19 49.1	777.0010	0.4397233	A. Leman
342 41 30.4	3 27 38.3	1 55 49.3	841.5265	0.416626	Tietjen
25 28 14.6	1 43 23.1	2 1 15.5	771.4115	0.4418137	Bauschinger
216 8 54.0	13 2 22.4	14 46 20.1	759.2003	0.4464335	Knopf
164 9 28.1	10 15 31.0	17 38 25.1	727.0438	0.4589640	Richter
171 10 12.2	15 12 11.0	6 36 19.6	814.1875	0.4261881	Bauschinger
201 5 2.9	10 47 16.8	12 54 38.9	982.2924	0.3718439	Darmer
258 52 26.3	7 34 13.7	14 53 43.7	984.634	0.371154	Bidschof
142 45 34.4	10 50 59.6	5 34 47.1	677.3539	0.4794607	Bauschinger
80 27 34.3	2 10 50.4	8 27 37.6	640.9934	0.4954353	Berberich
48 48 2.4	1 58 46.6	6 57 0.4	652.9855	0.4900687	Bauschinger
353 39 57.4	5 52 27.9	2 25 51.0	824.6755	0.4224824	S. Oppenheim
200 52 24.6	20 41 56.1	15 18 16.8	567.5897	0.530647	Cerulli
135 39 6.7	15 49 30.5	11 43 4.3	793.2109	0.433745	Kreutz
331 9 43.9	9 15 0.1	12 2 39.9	637.0300	0.4972311	Lange
313 44 55.4	2 33 21.6	13 55 0.2	1086.040	0.342774	Kreutz
30 53 4.5	2 9 24.8	8 11 15.6	561.4628	0.5337904	Berberich
239 53 16.0	9 25 11.6	3 32 52.8	964.9093	0.3770134	Richter
352 24 25.6	5 8 18.5	8 56 36.2	711.1049	0.4653820	Lange
152 33 31.6	6 4 17.4	9 51 22.1	869.5956	0.4071263	v. d. Groeben
222 40 10.4	7 39 4.5	5 49 43.8	817.9445	0.4248552	Knopf
144 25 8.3	15 21 14.2	14 7 1.5	962.6609	0.3776889	Tietjen
66 42 2.0	9 4 3.2	3 31 18.9	725.2712	0.4596708	Tietjen
186 49 0.9	7 36 48.4	10 54 45.4	758.1024	0.446853	Bidschof
84 44 24.1	9 45 48.7	4 1 30.3	772.4775	0.4414139	Schwarz
184 35 15.0	12 23 12.7	5 10 15.7	715.9041	0.463434	Berberich
181 39 47.0	6 9 4.0	13 26 21.7	693.1222	0.472798	Berberich
114 55 52.6	2 5 52.9	11 54 32.0	814.7587	0.4259851	Berberich

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
241 Germania . .	März 26	11.7	11.2	7.2	1914 April 1.0	1910.0	204 44 54.6	76 4 40.9
242 Kriembild . .	—	—	12.6	9.0	1911 Mai 21.5	1910.0	97 30 0	274 28 16.5
243 Ida	—	—	13.3	9.7	1910 Febr. 1.5	1910.0	43 16 22.0	104 57 1.6
244 Sita	—	—	13.7	11.7	1900 Okt. 11.0	1910.0	6 50 18.3	164 28 0.7
245 Vera	April 27	13.5	12.5	8.5	1897 März 20.0	1910.0	141 1 15.6	326 20 12.9
246 Asporina . .	Dez. 13	12.3	11.7	8.4	1912 Mai 11.5	1910.0	332 30 0	94 5 7.1
247 Eukrate . . .	Juli 22	12.0	11.0	7.6	1914 Juli 10.0	1910.0	261 26 30.8	53 26 54.5
248 Lameia . . .	—	—	13.0	10.2	1905 Aug. 6.0	1910.0	71 44 12.3	1 2 34.4
249 Ilse	Juni 22	13.7	13.6	11.1	1904 Dez. 29.0	1910.0	69 11 14.1	39 42 30.4
250 Bettina . . .	Dez. 9	10.8	11.5	7.3	1912 Juni 30.5	1910.0	192 54 30	66 3 47.2
251 Sophia . . .	—	—	13.6	9.6	1910 April 11.5	1910.0	106 35 0	288 20 55.2
252 Clementina .	Dez. 31	13.1	13.0	8.8	1901 Juli 18.0	1910.0	317 26 58.9	148 50 33.1
253 Mathilde . .	April 25	13.8	13.4	10.2	1901 April 9.0	1910.0	256 52 2.1	153 38 18.0
254 Augusta . .	—	—	13.4	11.3	1887 Juli 31.0	1910.0	101 27 54.0	230 49 10.4
255 Oppavia . .	Juli 6	14.0	13.8	10.4	1913 März 12.5	1910.0	7 32 11.8	149 5 37.0
256 Walpurga . .	Okt. 7	13.5	13.2	9.3	1906 Febr. 2.0	1910.0	254 22 31.1	48 28 9.1
257 Silesia	Mai 24	13.4	12.8	8.7	1902 April 4.0	1910.0	106 36 49.5	25 21 31.9
258 Tyche	—	—	11.1	8.0	1904 Okt. 10.0	1900.0	4 23 24.3	152 52 26.8
259 Aletheia . .	Juni 24	11.6	12.1	8.0	1899 Nov. 25.0	1910.0	162 11 23.4	156 52 33.7
260 Huberta . .	—	—	13.9	9.2	1900 Dez. 10.0	1910.0	92 3 1.9	163 58 5.7
261 Prymno . . .	Aug. 28	11.9	11.5	9.0	1897 Nov. 15.0	1910.0	275 46 24.4	63 7 47.9
262 Valda	Aug. 8	14.2	14.1	11.1	1901 Mai 19.0	1910.0	189 4 51.8	22 36 56.6
263 Dresda . . .	Mai 31	13.5	13.3	9.6	1903 Febr. 18.0	1910.0	133 51 41.8	158 3 22.8
264 Libussa . . .	Okt. 8	11.3	12.1	8.6	1895 Aug. 18.0	1910.0	316 59 55.7	336 41 5.1
265 Anna	Aug. 13	13.3	13.8	11.1	1914 Aug. 19.0	1910.0	60 23 24.5	251 24 36.3
266 Aline	Febr. 25	12.3	11.7	8.2	1904 Jan. 4.0	1900.0	65 48 59.9	147 50 13.7
267 Tirza	März 13	14.0	14.0	10.5	1901 Juni 28.0	1910.0	4 14 46.5	193 22 52.6
268 Adorea . . .	Mai 24	12.1	12.5	8.5	1903 Mai 29.0	1910.0	41 9 17.0	58 53 55.4
269 Justitia . . .	—	—	12.7	9.6	1900 Okt. 31.0	1910.0	91 35 3.3	115 31 13.2
270 Anahita . . .	—	—	11.0	8.9	1910 Nov. 28.0	1910.0	69 42 14.1	78 32 57.1
271 Penthesilea .	—	—	12.8	8.9	1902 Aug. 22.0	1910.0	303 17 6.1	49 19 54.7
272 Antonia . . .	Nov. 25	13.4	13.6	10.1	1899 Juli 28.0	1910.0	208 59 58.9	65 32 12.4
273 Atropos . . .	März 5	11.8	11.6	9.0	1910 Febr. 2.5	1910.0	227 57 25.0	118 51 48.0
274 Philagoria .	Febr. 8	13.3	13.6	9.6	1905 Juli 17.0	1910.0	81 26 30.7	114 39 38.8
275 Sapientia . .	Dez. 26	11.5	12.0	8.5	1912 Juli 10.5	1910.0	113 0 0	31 7 20.2
276 Adelheid . .	—	—	11.8	7.7	1905 Mai 18.0	1910.0	118 0 50.3	272 32 19.8
277 Elvira	Sept. 15	12.5	13.1	9.4	1907 März 9.0	1910.0	156 48 17.8	131 37 27.2
278 Paulina . . .	—	—	12.7	9.3	1906 April 23.0	1910.0	4 42 43.8	137 20 17.4
279 Thule	Sept. 14	13.7	13.8	8.1	1913 Juni 17.5	1910.0	358 35 20.7	220 43 38.9
280 Philia	—	—	14.4	10.6	1900 Febr. 13.0	1910.0	39 45 20.2	80 58 25.3

Ω	*i*	φ	μ	log *a*	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
271 51 30.5	5 29 58.7	5 48 19.3	666.41271	0.4841755	W. Luther
208 16 16.8	11 16 52.0	7 5 15.3	732.9031	0.4566401	Herz
326 14 27.5	1 9 23.6	2 43 0.0	733.1121	0.456558	Berberich
208 48 21.5	2 49 38.7	7 52 21.3	1106.6025	0.3373433	Berberich
62 9 21.1	5 11 20.0	11 37 34.2	651.4943	0.4907307	Tietjen
162 54 3.3	15 37 35.8	6 2 43.0	802.267	0.4304584	Seydler
0 15 18.8	25 4 41.0	13 55 42.0	781.40158	0.4380882	W. Luther
246 45 12.4	4 0 52.7	3 40 49.9	913.94026	0.3927259	Berberich
334 49 30.7	9 40 10.9	12 28 59.5	968.2498	0.3760128	Berberich
25 44 44.7	12 56 32.7	7 1 38.3	633.85003	0.498680	P. V. Neugebauer
156 56 53.5	10 29 21.1	5 38 31.8	651.4801	0.4907369	Knopf
203 12 39.2	9 59 40.2	4 15 39.6	632.1027	0.4994793	Charlois
180 9 24.1	6 38 16.5	15 28 16.9	824.9747	0.4223773	Knopf
28 28 40.6	4 32 3.2	6 58 7.6	1091.0836	0.3414323	Schwarz
14 21 29.6	9 30 42.0	4 39 47.9	779.504	0.438792	Berberich
183 38 34.4	13 17 58.1	3 43 37.0	683.2594	0.4769473	Berberich
35 41 14.3	3 41 49.7	7 18 8.3	646.6326	0.4928994	Berberich
207 43 26.2	14 15 2.4	11 52 56.0	838.8243	0.4175571	Stechert
88 37 4.1	10 42 43.7	6 20 43.1	635.21397	0.4980577	Ernst
168 3 52.2	6 17 53.3	7 7 16.5	554.7196	0.5372887	v. d. Groeben
96 28 8.3	3 38 28.6	5 9 55.5	996.7823	0.3676042	Riem
38 44 43.0	7 44 4.6	12 14 5.8	869.5200	0.4071513	Berberich
217 47 31.0	1 16 53.0	4 21 32.2	722.5549	0.4607572	v. d. Groeben
50 12 15.6	10 26 47.1	7 44 47.5	757.7014	0.4470056	Cerulli
335 24 48.1	25 40 49.6	15 21 19.1	941.4022	0.3841543	Berberich
236 19 21.7	13 21 1.2	9 1 20.5	755.6505	0.4477904	Berberich
74 11 19.8	6 1 26.2	5 46 49.5	767.3626	0.4433373	v. d. Groeben
121 47 54.0	2 25 39.9	7 45 32.6	652.37206	0.4903408	Berberich
157 37 9.8	5 25 49.2	12 18 39.7	838.9442	0.4175157	Berberich
254 27 59.2	2 21 38.4	8 38 46.0	1088.54983	0.3421055	Berberich
337 6 44.8	3 34 52.4	5 47 42.9	679.1966	0.4786741	Knopf
37 51 15.8	4 28 30.9	1 46 56.3	767.2554	0.4433777	Charlois
158 42 3.0	20 24 0.0	9 19 0.0	957.1000	0.3793662	Berberich
93 45 36.1	3 40 53.3	7 7 6.3	669.09610	0.4830121	Berberich
134 55 18.6	4 44 44.3	9 18 0.2	769.93398	0.4423688	Lange
211 36 29.4	21 35 30.5	4 7 12.9	645.07018	0.4935998	Hackenberg
233 17 5.0	1 8 0.1	5 18 42.5	724.6235	0.4599295	Berberich
62 20 28.0	7 49 44.6	7 47 48.7	776.6491	0.4398545	Berberich
75 20 6.6	2 21 2.6	3 39 49.0	397.6000	0.6337068	Wedemeyer
11 25 17.4	7 27 30.5	6 19 13.9	703.8816	0.4683380	Berberich

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
281 Lucretia . .	Nov. 23	12.2	13.1	11.0	1906 März 21.5	1910.0	126° 36′ 0″	14° 35′ 2.4″
282 Clorinde . .	Febr. 2	13.0	13.3	10.8	1905 Aug. 26.0	1910.0	277 9 37.1	294 43 20.3
283 Emma	—	—	11.8	7.8	1912 Juni 0.5	1910.0	277 39 19	49 9 13.5
284 Amalia . . .	März 7	13.4	12.9	10.4	1905 Dez. 24.0	1910.0	168 23 3.0	55 42 58.7
285 Regina . . .			14.9	10.9	1889 Aug. 19.5	1910.0	357 36 27.2	12 28 58.7
286 Iclea	—	—	13.2	9.0	1905 Juni 7.0	1910.0	211 56 51.1	243 11 59.6
287 Nephthys . .	Juli 14	10.6	10.7	8.2	1899 April 19.0	1910.0	311 52 37.9	117 32 38.4
288 Glauke . . .	Aug. 2	12.7	12.5	9.1	1914 Aug. 19.0	1910.0	88 34 3.1	80 25 46.9
289 Nenetta . . .	Jan. 21	12.7	12.5	8.8	1912 Okt. 8.0	1910.0	355 2 55.3	186 59 40.3
290 Bruna	—	—	13.9	11.5	1890 Mai 7.5	1910.0	56 49 22.1	103 32 41.3
291 Alice	Aug. 18	14.1	13.6	11.4	1905 Dez. 24.0	1910.0	337 18 6.1	329 28 13.1
292 Ludovica . .	April 13	12.6	12.5	9.5	1902 April 4.0	1910.0	235 19 43.0	288 11 40.7
293 Brasilia . . .	Mai 3	12.6	12.9	9.2	1890 Juni 17.5	1910.0	92 28 41.4	82 22 24.6
294 Felicia . . .	—	—	14.3	10.2	1901 Aug. 7.0	1910.0	353 2 17.9	179 28 13.6
295 Theresia . .	Nov. 29	12.5	13.5	10.0	1900 Dez. 10.0	1910.0	8 35 38.2	143 48 50.9
296 Phaëtusa . .	—	—	13.3	11.1	1890 Aug. 22.0	1910.0	330 33 11.7	250 4 4.6
297 Caecilia . . .	—	—	13.3	9.1	1906 Juni 2.0	1910.0	300 21 16.8	346 24 30.3
298 Baptistina .	Okt. 18	13.8	13.5	11.3	1906 Mai 13.0	1910.0	83 33 27.7	132 43 13.3
299 Thora	—	—	14.5	11.7	1903 Jan. 19.5	1910.0	83 26 9.5	147 35 9.9
300 Geraldina . .	Dez. 15	12.6	12.5	8.2	1895 Juli 10.0	1910.0	336 44 54.3	283 3 2.7
301 Bavaria . . .	—	—	12.7	9.3	1911 Mai 25.5	1910.0	344 23 0	121 19 7.3
302 Clarissa . . .	Jan. 12	13.4	13.9	11.2	1901 Sept. 16.0	1910.0	291 57 23.5	53 1 48.0
303 Josephina . .	April 22	12.4	12.0	7.9	1913 Febr. 25.5	1910.0	81 50 46.5	68 47 43.4
304 Olga	April 27	12.7	12.4	9.7	1906 Febr. 2.0	1910.0	193 33 14.2	169 45 47.0
305 Gordonia . .	Juni 3	13.2	12.5	8.4	1905 Okt. 5.0	1910.0	281 49 57.0	250 36 56.1
306 Unitas . . .	Okt. 7	10.2	10.7	8.2	1902 März 15.5	1910.0	240 21 9.1	165 31 57.6
307 Nike	Nov. 19	12.3	13.1	9.4	1912 Mai 11.5	1910.0	171 46 23	320 29 5.7
308 Polyxo . . .	April 18	11.0	11.0	7.6	1911 Okt. 19.5	1910.0	83 29 0	108 53 30.4
309 Fraternitas .	Okt. 31	12.4	12.7	9.5	1891 Mai 11.5	1910.0	239 5 58.0	332 8 15.9
310 Margarita . .	Juni 6	13.2	13.5	10.1	1891 Mai 16.5	1900.0	43 37 28.5	318 27 8.9
311 Claudia . . .	Jan. 9	12.9	13.0	9.3	1903 Dez. 15.0	1910.0	301 34 1.6	70 19 52.5
312 Pierretta . .	Sept. 10	12.2	12.5	9.0	1912 Jan. 12.5	1910.0	217 21 30	256 32 46.2
313 Chaldaea . .	—	—	10.3	7.7	1915 Febr. 15.0	1910.0	10 16 50.4	314 1 59.6
314 Rosalia . . .	Dez. 13	13.8	14.0	9.9	1907 Juli 7.0	1910.0	304 32 21.0	185 10 13.6
315 Constantia .	Mai 20	13.9	14.0	11.8	1891 Sept. 4.5	1910.0	9 27 44.6	171 22 42.4
316 Goberta . . .	Okt. 3	12.9	13.3	9.1	1912 Mai 1.0	1910.0	153 41 0	310 50 0
317 Roxane . . .	Febr. 21	12.6	12.2	9.8	1904 März 24.0	1910.0	223 53 21.1	185 10 51.7
318 Magdalena .	Aug. 20	13.3	13.2	9.0	1912 April 11.0	1910.0	108 4 24.8	275 37 19.0
319 Leona	Mai 17	15.2	14.2	9.7	1912 Jan. 22.0	1910.0	61 25 57.4	216 7 7.9
320 Katharina . .	Jan. 19	14.0	13.7	9.8	1912 Okt. 14.5	1910.0	17 30 0	142 54 14.8

☊	i	φ	μ	log a	Autorität
31° 18′ 2.7″	5° 19′ 37.6″	7° 35′ 40.8″	1096.419″	0.340020	Seydler
144 47 14.0	9 1 23.8	4 40 42.6	992.0943	0.3689684	Berberich
305 49 20.8	8 2 24.7	8 40 9.5	668.000	0.483487	Berberich
234 2 0.7	8 4 14.3	12 51 34.8	979.7243	0.3726018	Berberich
312 19 2.3	17 16 57.9	11 55 35.4	661.4827	0.4863254	Charlois
149 38 59.4	17 53 34.1	0 45 31.4	620.6276	0.5047837	Berberich
142 13 54.2	10 1 20.1	1 19 35.4	982.6631	0.371735	Cerulli
121 3 0.6	4 19 57.1	11 50 32.4	772.47775	0.4414138	R. Luther
182 30 39.4	6 39 20.6	11 40 1.3	727.9106	0.4586190	Berberich
10 35 19.4	22 13 28.1	15 4 22.7	995.1925	0.368066	S. Oppenheim
161 7 22.5	1 50 32.2	5 19 14.8	1071.1737	0.3467645	Berberich
43 13 3.2	14 52 14.6	1 38 57.0	881.5524	0.4031723	Berberich
62 20 54.1	15 45 20.9	6 48 2.9	730.8370	0.4574574	Charlois
137 3 38.4	6 14 57.7	14 21 59.6	638.4006	0.4966088	P. V. Neugebauer
277 34 14.1	2 40 23.3	9 49 31.5	758.6107	0.4466584	Berberich
121 1 53.2	1 44 47.3	9 6 25.9	1068.122	0.3475906	Coniel
333 34 56.7	7 34 41.9	7 57 28.4	629.2581	0.5007852	Berberich
8 7 5.8	6 17 37.4	5 28 22.7	1041.4193	0.3549207	Berberich
242 2 9.3	1 35 16.8	3 29 25.0	935.125	0.386091	Berberich
42 21 30.3	0 47 5.4	2 26 41.4	617.2655	0.5063564	Rodin
142 45 15.3	4 52 38.1	3 42 13.9	789.1302	0.4352386	Berberich
7 53 43.9	3 26 5.3	6 20 54.3	951.0353	0.381207	Berberich
345 5 29.1	6 55 24.3	4 6 31.7	644.0835	0.494043	Millosevich
158 53 56.4	15 47 16.1	12 49 46.2	952.9185	0.3806339	Berberich
211 11 17.9	4 25 2.2	11 33 54.0	654.8993	0.4892213	Berberich
141 43 35.3	7 15 13.9	8 40 35.6	980.0925	0.372493	Millosevich
101 43 34.0	6 6 42.4	8 16 29.7	715.9363	0.4634215	Knopf
182 8 53.0	4 19 54.1	2 13 1.3	777.889	0.439393	Berberich
358 7 59.8	3 56 18.3	5 1 56.0	831.679	0.420034	Berberich
230 37 4.6	3 7 7.3	6 39 44.6	774.1717	0.440780	Nordenmark
81 17 5.5	3 15 43.1	0 51 16.3	720.5678	0.4615545	Berberich
7 40 39.7	9 5 3.2	9 13 39.5	765.2695	0.4441281	P. V. Neugebauer
176 32 9.6	11 36 26.8	10 30 46.0	969.2669	0.375709	Berberich
171 17 15.6	12 32 21.5	10 26 41.1	634.7188	0.4982835	Berberich
161 22 12.5	2 24 30.8	9 40 17.9	1057.2646	0.3505486	Bohlin
124 31 0	2 19 5	7 26 0	623.000	0.5036747	Berberich
150 50 32.5	1 45 18.0	4 50 38.8	1025.9378	0.3592571	Berberich
162 46 41.0	10 33 17.3	3 23 4.9	617.66571	0.5061688	Mader
189 3 34.3	10 43 54.5	12 10 30.1	563.02579	0.5329855	Berberich
221 12 36.2	9 19 16.0	6 41 30.5	677.426	0.479430	Berberich

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
321 Florentina . .	Juni 8	13.4	13.2	9.5	1903 Febr. 18.0	1910.0	72 54 39.7	34 0 40.1
322 Phaeo	Okt. 12	10.7	12.3	8.8	1905 Nov. 14.0	1910.0	38 46 38.3	111 32 54.5
323 Brucia			13.0	11.0	1892 Jan. 1.5	1891.0	43 0 42	292 17 48
324 Bamberga . .	Febr. 25	11.0	9.9	6.6	1914 Jan. 31.0	1910.0	115 1 40.0	41 30 40.0
325 Heidelberga .	—	—	12.4	8.1	1913 Dez. 2.0	1910.0	9 26 15.7	75 13 53.5
326 Tamara	Okt. 9	11.2	11.1	8.7	1892 März 20.0	1910.0	298 49 14.0	236 57 34.2
327 Columbia . . .	—	—	13.0	9.5	1905 Febr. 7.0	1910.0	181 23 55.4	300 41 58.1
328 Gudrun	März 27	12.3	12.3	8.2	1906 Okt. 20.0	1910.0	309 12 45.4	102 25 47.4
329 Svea	—	—	12.1	9.3	1901 Aug. 27.0	1910.0	120 9 24.9	38 30 56.3
330 Adalberta . .			13.5	11.7	1892 März 20.5	1892.0	181 3 42	— — —
331 Etheridgea . .	Juli 16	12.1	12.5	8.5	1907 Febr. 17.0	1910.0	158 33 59.1	333 35 38.5
332 Siri	—	—	12.6	9.1	1906 März 14.0	1910.0	223 56 59.9	293 37 55.7
333 Badenia . . .	Aug. 31	11.8	12.7	8.6	1907 April 18.0	1910.0	215 17 59.6	14 14 18.9
334 Chicago	Juni 30	12.1	12.0	6.8	1913 April 26.0	1910.0	216 55 13.6	234 7 36.5
335 Roberta	Febr. 13	12.3	11.6	8.8	1906 Febr. 2.0	1910.0	205 28 47.7	140 50 43.9
336 Lacadiera . . .	—	—	11.8	9.6	1902 Juni 23.0	1910.0	49 57 10.9	28 49 41.1
337 Devosa	Sept. 24	11.3	11.4	8.8	1901 Jan. 19.0	1910.0	27 7 6.0	95 40 16.9
338 Budrosa . . .	Jan. 17	12.1	12.1	8.4	1899 Jan. 9.0	1910.0	72 15 37.1	106 31 3.0
339 Dorothea . . .	—	—	12.8	8.8	1906 April 23.0	1910.0	246 3 47.7	155 59 18.6
340 Eduarda . . .	Juli 15	13.3	12.9	9.5	1906 Nov. 9.0	1910.0	346 36 56.4	39 58 16.1
341 California . . .	März 27	13.7	13.1	11.0	1907 Jan. 28.0	1910.0	172 9 40.7	291 20 59.2
342 Endymion . .	Jan. 1	12.1	12.8	9.8	1906 Febr. 2.0	1910.0	33 2 34.6	221 45 48.4
343 Ostara	Aug. 12	13.1	13.5	10.9	1907 Nov. 4.0	1910.0	7 5 31.6	7 10 41.2
344 Desiderata . .	—	—	11.7	8.5	1913 Nov. 12.0	1910.0	93 52 35.6	233 54 35.0
345 Tercidina . . .	—	—	11.2	8.8	1906 Okt. 20.0	1910.0	304 42 30.8	229 3 10.0
346 Hermentaria .	Juni 10	11.7	11.5	8.0	1899 März 10.0	1910.0	156 0 38.3	287 6 50.9
347 Pariana	—	—	12.0	8.8	1906 Jan. 13.5	1910.0	309 39 11.0	83 32 9.5
348 May	Jan. 18	12.6	12.9	9.1	1895 Mai 10.0	1910.0	143 12 22.8	4 58 1.5
349 Dembowska .	März 5	10.2	9.8	6.0	1912 Nov. 27.5	1910.0	51 11 0	340 30 13.5
350 Ornamenta . .	Dez. 3	11.8	12.7	8.6	1907 Juli 7.0	1910.0	240 6 7.0	331 59 51.1
351 Yrsa	Sept. 12	12.8	12.2	8.8	1907 Jan. 28.0	1910.0	354 50 4.6	27 13 3.4
352 Gisela	Aug. 4	11.7	12.1	10.0	1904 Juni 12.0	1910.0	255 25 57.5	142 27 24.3
353 Ruperto-Carola			14.2	10.9	1893 Febr. 22.5	1910.0	44 0 13.0	317 41 4.5
354 Eleonora . . .	Sept. 9	10.6	10.0	6.5	1913 Juni 5.0	1910.0	107 7 5.5	4 7 42.3
355 Gabriella . . .	April 27	13.4	13.1	10.1	1905 Jan. 2.5	1910.0	12 25 36.0	94 32 55.4
356 Liguria	Sept. 7	10.6	11.0	7.6	1907 Febr. 17.0	1910.0	64 49 7.3	74 23 55.2
357 Ninina	—	—	12.2	8.0	1912 Juli 20.5	1910.0	293 5 0	242 29 42.0
358 Apollonia . . .	Juni 19	13.0	12.5	8.8	1912 Jan. 2.5	1910.0	33 21 47	248 18 56.9
359 Georgia	—	—	12.3	8.9	1902 Mai 2.5	1910.0	203 0 32.1	336 37 38.1
360 Carlova	März 27	12.3	11.9	8.0	1908 Jan. 3.0	1910.0	33 4 5.4	286 54 56.0

☊	i	φ	μ	log a	Autorität
40° 47′ 5″.0	2° 36′ 56″.6	2° 39′ 3″.1	723″.6554	0.4603165	Berberich
253 56 18.3	7 59 8.1	14 15 14.3	763.9060	0.4446445	Berberich
97 2 30	19 20 54	15 57 36	1119.60	0.333960	Berberich
328 40 34.8	11 14 31.0	19 41 31.8	806.6519	0.4288803	Berberich
345 10 54.9	8 32 42.2	9 30 44.5	618.2410	0.5058992	Berberich
32 9 9.7	23 47 22.4	10 48 17.5	1005.7638	0.365007	Bidschof
355 39 44.3	7 9 11.2	3 41 18.3	766.8777	0.4435203	Berberich
353 15 29.5	16 7 1.7	7 2 42.8	649.8767	0.4914504	Berberich
178 28 13.5	16 0 36.7	1 35 42.6	912.1349	0.3932983	Pannekoek
358 46 36	19 58 36	— — —	1174.9	0.32000	Berberich
22 52 28.7	6 4 30.0	5 58 43.0	675.6718	0.4801805	Berberich
32 3 7.2	2 52 35.7	5 10 38.7	768.7492	0.4428147	Berberich
355 22 47.1	3 50 23.7	10 5 3.7	644.6123	0.4938053	Berberich
134 19 46.7	4 37 56.5	0 51 26.2	459.5144	0.591805	Berberich
147 55 31.6	5 5 49.9	10 22 10.8	912.6621	0.3931311	Berberich
235 1 13.3	5 38 30.7	5 28 48.1	1049.8478	0.3525869	Berberich
355 41 19.0	7 51 56.4	7 57 52.0	964.4421	0.3771536	Coniel
288 39 56.0	6 2 41.2	1 12 38.1	713.531	0.464396	Coniel
174 26 7.4	9 53 59.7	5 49 6.3	679.2158	0.4786658	Berberich
27 35 29.8	4 42 11.5	6 46 57.8	779.9016	0.4386445	Berberich
29 3 57.0	5 40 1.7	11 8 39.8	1087.7152	0.3423276	Berberich
233 0 11.1	7 20 46.9	7 22 8.5	862.0140	0.4096615	Berberich
38 41 38.8	3 18 13.0	13 22 54.8	947.8162	0.3821883	Berberich
48 58 58.1	18 36 36.9	18 24 4.3	851.0255	0.4133760	Berberich
212 31 31.0	9 44 20.7	3 30 29.0	1000.9051	0.3664092	Viaro
92 32 7.0	8 45 21.1	5 47 46.6	758.53251	0.446688	Ehrenfeucht
85 52 47.9	11 42 41.9	9 21 56.3	838.0358	0.4178294	Boccardi
90 45 49.6	9 45 30.5	3 49 50.1	693.6375	0.472584	P. V. Neugebauer
33 13 11.3	8 17 24.6	5 8 39.7	709.2917	0.466122	P. V. Neugebauer
90 39 23.5	24 44 31.8	8 44 29.1	643.0948	0.4944877	Berberich
99 40 26.2	9 13 56.4	8 52 21.2	770.7562	0.4420597	Berberich
247 18 51.6	3 22 0.5	8 36 26.8	1091.9690	0.3411975	Berberich
103 23 14.9	5 34 36.4	19 15 26.7	787.080	0.435992	Berberich
140 36 19.9	18 22 33.9	6 27 25.4	757.0389	0.447259	Ciscato
352 19 52.4	4 21 6.4	6 12 55.9	877.280	0.404580	Berberich
356 14 1.3	8 16 5.4	14 2 9.4	776.2821	0.4399913	Berberich
138 47 50.5	15 6 50.1	4 5 44.9	634.456	0.498404	P. V. Neugebauer
173 8 14.8	3 31 44.7	8 26 24.1	726.563	0.459155	Coniel
6 41 13.1	6 48 31.7	8 58 30.9	787.647	0.435783	Berberich
133 23 12.5	11 39 55.5	10 20 45.1	682.0180	0.4774739	Berberich

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
361 Bononia . .	Nov. 2	12.5	13.3	8.0	1913 Aug. 4.0	1910.0	267° 45′ 57.2″	74° 0′ 17.4″
362 Havnia . . .	April 21	11.2	11.1	8.0	1905 Febr. 7.0	1910.0	72 40 34.9	29 11 6.7
363 Padua . . .	Dez. 23	11.6	11.6	8.2	1912 Mai 1.0	1910.0	237 52 36.6	290 50 12.5
364 Isara	Aug. 1	11.8	11.7	9.5	1911 Nov. 15.5	1910.0	334 0 0	311 1 48.7
365 Corduba . .	Okt. 16	11.3	12.2	8.7	1913 Juni 30.5	1910.0	248 3 0.0	212 54 30.0
366 Vincentina .	—	—	12.3	8.2	1904 März 24.0	1910.0	241 10 18.0	314 58 42.8
367 Amicitia . .	Okt. 27	12.6	12.5	10.3	1906 März 28.5	1910.0	52 40 0.0	53 16 37.5
368 Haidea . . .	April 17	13.6	13.5	9.5	1893 Juli 17.5	1910.0	317 18 49.4	85 6 56.3
369 Aëria	April 27	13.2	12.7	9.5	1906 Juli 12.0	1910.0	287 6 32.8	266 17 7.5
370 Modestia . .	Juni 16	12.8	12.8	10.4	1907 Juli 7.0	1910.0	292 33 33.7	66 1 12.1
371 Bohemia . .	Jan. 30	12.0	11.8	8.4	1903 Nov. 5.0	1910.0	134 41 23.3	338 43 42.6
372 Palma . . .	Juni 25	11.8	10.5	6.4	1913 Juni 5.0	1910.0	126 25 35.5	113 9 45.2
373 Melusina . .	Juni 4	12.8	12.8	8.7	1907 März 9.0	1910.0	165 50 25.5	347 42 45.3
374 Burgundia .	Jan. 26	11.8	11.7	8.2	1906 Juni 2.0	1910.0	20 43 28.8	22 6 54.0
375 Ursula . . .	Juni 8	10.8	11.0	6.9	1912 Febr. 11.5	1910.0	155 10 0	344 31 25.5
376 Geometria .	Okt. 27	12.4	11.8	9.4	1904 Nov. 19.0	1910.0	171 38 36.4	314 16 28.2
377 Campania .	Juni 16	11.8	11.5	8.2	1893 Okt. 7.5	1910.0	338 6 43.1	192 39 34.1
378 Holmia . . .	April 13	13.2	12.6	9.1	1906 Aug. 21.0	1910.0	301 48 59.4	153 47 51.8
379 Huenna . . .	Sept. 23	11.4	12.6	8.5	1901 April 9.0	1910.0	210 5 22.9	177 18 16.1
380 Fiducia . . .	Okt. 11	12.0	12.6	9.3	1894 Jan. 11.0	1910.0	129 58 51.0	237 3 32.6
381 Myrrha . . .	Okt. 6	12.4	12.4	8.1	1906 März 14.0	1910.0	266 28 42.8	142 59 18.2
382 Dodona . . .	Nov. 24	13.0	12.1	8.1	1906 Mai 13.0	1910.0	9 20 17.0	267 5 53.6
383 Janina . . .	Sept. 20	12.6	13.3	9.2	1908 Aug. 30.0	1910.0	290 32 49.4	313 43 28.9
384 Burdigala . .	Nov. 14	10.9	11.7	8.5	1912 April 21.5	1910.0	126 0 0	30 33 43.4
385 Ilmatar . . .	Juni 13	10.3	10.3	6.7	1904 Mai 3.0	1910.0	38 31 8.7	184 18 24.2
386 Siegena . . .	März 27	11.3	10.5	6.8	1906 Aug. 21.0	1910.0	317 54 55.1	217 39 48.2
387 Aquitania .	Nov. 6	10.1	9.8	6.4	1895 Juli 3.5	1910.0	353 6 10.2	153 33 34.9
388 Charybdis .	—	—	11.7	7.8	1906 Juli 12.0	1910.0	338 15 19.8	322 41 28.4
389 Industria . .	—	—	11.1	8.0	1899 Juni 18.0	1910.0	63 27 27.4	262 50 16.2
390 Alma	Nov. 21	13.0	13.2	10.0	1899 Mai 17.0	1910.0	88 15 19.6	188 31 9.3
391 Ingeborg . .	März 26	14.7	13.2	10.8	1906 Jan. 13.0	1910.0	82 56 37.0	145 9 23.8
392 Wilhelmina .			12.2	8.3	1894 Nov. 4.5	1910.0	38 39 10.1	141 27 52.4
393 Lampetia . .	—	—	11.0	7.6	1913 Dez. 2.0	1910.0	109 33 52.4	86 26 40.4
394 Arduina . .	Jan. 8	13.7	13.0	9.6	1894 Nov. 23.5	1910.0	55 25 12.3	265 38 37.7
395 Delia	—	—	13.0	9.5	1894 Dez. 3.5	1910.0	136 43 41.3	20 38 45.7
396 Aeolia . . .			13.2	9.7	1894 Dez. 2.5	1910.0	156 42 32.8	18 37 12.4
397 Vienna . . .	Mai 8	12.9	12.2	9.0	1902 Okt. 1.0	1910.0	348 10 32.9	136 23 11.0
398 Admete . . .	April 14	14.4	13.7	10.4	1907 Nov. 4.5	1910.0	317 29 32.7	156 33 37.6
399 Persephone .	Okt. 31	13.3	13.0	9.0	1907 Juli 7.0	1910.0	99 59 2.0	187 2 29.5
400 Ducrosa . .			14.5	10.4	1895 März 18.5	1910.0	337 44 19.1	229 27 12.8

Ω	i	φ	μ	log a	Autorität
19° 16′ 33.″8	12° 39′ 9.″5	11° 58′ 41.″8	453.″56804	0.5955761	Berberich
27 23 27.4	8 4 45.0	2 31 4.1	857.1587	0.4112969	Berberich
65 5 27.7	5 57 58.3	4 6 41.5	778.617	0.439122	Antoniazzi
105 12 52.6	6 0 3.6	8 36 53.9	1072.5804	0.3463845	Berberich
185 54 15.1	12 43 37.8	9 1 30.0	756.583	0.447433	Berberich
347 59 13.4	10 35 26.9	3 27 2.7	636.2125	0.4976029	Berberich
83 7 23.4	2 57 0.7	5 28 31.2	1072.8626	0.3463083	Berberich
230 7 47.4	7 48 12.9	11 8 13.1	663.984	0.485231	Berberich
94 30 31.4	12 43 17.6	5 33 23.3	822.7067	0.4231744	Berberich
290 58 8.9	7 52 10.3	5 13 41.6	1001.1919	0.3663261	Berberich
284 12 37.5	7 22 40.9	3 35 42.4	788.36206	0.4355206	Mader
328 23 40.6	23 39 45.1	15 29 44.8	635.8304	0.4977769	Berberich
4 26 22.4	15 27 4.2	8 34 43.1	646.5817	0.4929222	Berberich
219 35 36.2	8 57 56.2	4 37 44.9	765.5599	0.4440183	Berberich
337 27 33.3	15 57 18.0	5 41 17.0	640.8169	0.4955151	Heuer
302 13 7.9	5 25 21.7	9 54 46.1	1025.0162	0.3595172	Berberich
210 44 55.0	6 39 37.8	4 26 14.5	804.920	0.429503	Coniel
233 14 43.6	6 57 56.3	7 20 19.7	766.5723	0.4436357	Berberich
172 51 58.2	1 36 30.6	11 5 26.6	641.8494	0.4950490	Coniel
95 22 51.6	6 10 16.7	6 33 30.2	809.782	0.427760	P. V. Neugebauer
125 23 34.0	12 34 45.8	7 15 16.3	620.6242	0.5047852	Berberich
315 49 0.2	7 26 3.1	10 9 28.8	645.0171	0.4936236	Berberich
93 25 27.3	2 39 13.5	9 59 26.2	638.8727	0.4963949	Berberich
48 21 10.9	5 38 57.3	8 22 34.3	821.446	0.423618	Kromm
345 47 13.2	13 41 2.2	7 30 49.9	739.9493	0.4538697	Witt
167 7 26.1	20 15 35.6	9 34 42.5	719.3456	0.4620460	Berberich
128 46 8.2	17 57 51.9	13 47 16.3	782.6076	0.4376414	Ogburn
355 28 53.3	6 28 59.6	3 28 2.8	680.7507	0.4780123	Berberich
282 46 45.1	8 7 8.8	3 53 14.7	842.4772	0.416299	Peyra
305 34 11.1	12 8 55.9	7 28 40.3	821.022	0.423768	Coniel
212 42 11.7	23 2 49.0	18 0 7.6	1004.2640	0.3654391	Berberich
211 52 31.8	15 42 21.3	10 13 36.9	694.356	0.472283	Berberich
214 28 21.2	14 54 21.8	19 11 46.8	765.9654	0.443865	Berberich
68 21 10.6	6 15 39.4	13 11 32.3	771.095	0.441933	Coniel
260 2 6.3	3 31 42.0	7 16 9.6	764.391	0.444461	Capon
251 27 25.2	2 37 50.3	10 18 30.4	782.986	0.437501	Coniel
228 41 30.2	12 43 45.5	14 18 8.2	829.15136	0.4209152	Mader
280 38 14.2	9 29 36.6	12 49 55.4	782.8137	0.4375654	Franz
347 18 20.6	13 10 0.0	4 6 33.0	665.0959	0.4847482	Berberich
328 49 40.9	10 36 55.7	5 15 50.9	641.871	0.495039	Berberich

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M ° ′ ″	ω ° ′ ″
401 Ottilia	Mai 13	12.4	12.6	8.2	1913 März 17.0	1910.0	285 11 49.3	200 21 32.0
402 Chloë	—	—	10.7	7.7	1911 Jan. 30.5	1910.0	341 8 28.2	13 33 47.8
403 Cyane . . .	Juni 8	12.3	12.0	8.5	1905 Juli 17.0	1910.0	153 9 6.5	247 54 30.1
404 Arsinoë . . .	—	—	13.0	10.0	1905 Nov. 14.0	1910.0	214 53 8.0	118 51 5.8
405 Thia	—	—	11.0	8.0	1912 Aug. 29.5	1910.0	118 33 0	305 12 7.9
406 Erna	Mai 13	13.8	13.5	9.8	1910 Sept. 9.0	1910.0	355 6 43.8	34 38 0.0
407 Arachne . .	Febr. 11	12.1	11.9	8.7	1907 Juli 27.0	1910.0	290 1 11.0	78 11 36.7
408 Fama	Febr. 3	13.4	13.4	9.2	1895 Okt. 15.5	1910.0	354 28 32.9	100 36 33.0
409 Aspasia . . .	Mai 20	10.2	10.7	7.6	1903 Okt. 19.5	1910.0	163 47 0.0	351 8 7.6
410 Chloris . . .	Jan. 5	12.9	11.9	8.5	1906 April 17.5	1910.0	311 22 7.1	168 47 7.0
411 Xanthe . . .	Okt. 27	12.6	12.5	8.7	1912 März 12.5	1910.0	260 0 0	177 59 24
412 Elisabetha .	—	—	11.9	8.5	1904 Dez. 29.0	1910.0	252 59 27.0	92 48 23.5
413 Edburga . .	April 12	13.7	12.2	9.2	1896 Jan. 10.5	1910.0	72 21 21.0	248 52 42.0
414 Liriope . . .	Dez. 11	12.8	13.4	8.6	1910 April 2.0	1910.0	122 10 0.0	299 54 3.1
415 Palatia . . .	—	—	11.6	8.1	1910 Febr. 13.5	1910.0	52 16 0.0	293 39 15.0
416 Vaticana . .	Febr. 10	11.8	11.5	8.0	1911 Nov. 15.5	1910.0	93 57 0	195 25 17.1
417 Suevia . . .	Jan. 22	12.2	12.7	9.2	1907 Sept. 25.0	1910.0	186 5 50.0	343 18 38.4
418 Alemannia .	—	—	12.6	9.5	1905 Dez. 24.0	1910.0	60 11 21	123 1 58.9
419 Aurelia . . .	Dez. 27	12.3	11.1	8.0	1908 Mai 22.0	1910.0	338 37 48.2	40 32 43.9
420 Bertholda . .	Juli 8	12.5	12.3	7.7	1913 Juli 15.0	1910.0	125 34 56.8	218 43 27.1
421 Zähringia . .	Febr. 21	14.6	14.2	11.2	1912 Aug. 29.0	1910.0	315 8 23.1	206 41 23.8
422 Berolina . .	—	—	13.4	11.2	1896 Dez. 4.5	1910.0	43 3 30.9	333 4 23.2
423 Diotima . . .	Jan. 20	11.4	11.2	7.2	1906 Sept. 30.0	1910.0	87 12 6.0	193 49 7.3
424 Gratia . . .	Nov. 19	12.1	12.8	9.3	1912 Mai 1.5	1910.0	149 44 0	329 36 33.8
425 Cornelia . .	Aug. 25	13.3	13.1	9.4	1908 Mai 19.5	1910.0	46 0 0	118 48 56.6
426 Hippo	—	—	11.5	7.8	1897 Sept. 30.0	1910.0	172 10 55.2	221 45 45.3
427 Galene . . .	—	—	12.8	9.0	1912 Juli 10.5	1910.0	349 48 0	5 55 16.4
428 Monachia . .	Juli 26	13.3	13.5	11.1	1900 Aug. 7.5	1910.0	300 39 10.6	13 51 45.2
429 Lotis	Dez. 8	12.0	12.6	9.4	1905 Sept. 22.5	1910.0	331 42 21.7	166 36 34.0
430 Hybris . .	Mai 17	14.4	13.2	9.6	1898 Jan. 21.5	1910.0	15 12 12.0	174 56 25.2
431 Nephele . . .	—	—	12.6	8.5	1911 März 31.5	1910.0	235 0 0.0	209 48 3.8
432 Pythia . . .	Juni 21	10.2	11.3	8.7	1906 Febr. 2.0	1910.0	258 54 29.7	172 15 56.3
433 Eros	Sept. 18	10.5	9.7	10.6	1914 Sept. 28.0	1910.0	267 11 1.2	177 50 23.3
434 Hungaria . .	Juli 5	11.4	11.8	10.4	1908 März 3.0	1910.0	226 7 44.9	123 1 51.3
435 Ella	—	—	12.1	9.3	1906 Nov. 9.0	1910.0	44 18 22.6	331 7 16.6
436 Patricia . . .	Juni 16	13.1	12.9	8.7	1906 Febr. 2.0	1910.0	90 41 57.0	23 21 16.1
437 Rhodia . . .	—	—	12.7	10.1	1909 Juni 26.0	1910.0	333 36 40.9	59 32 29.8
438 Zeuxo	Okt. 6	11.9	11.8	8.8	1912 Jan. 30.5	1912.0	229 31 57.1	208 23 40.9
439 Ohio	Aug. 16	12.8	12.7	8.6	1900 Jan. 0.0	1910.0	30 57 55.5	231 8 28.0
440 Theodora . .	Aug. 10	13.5	13.1	10.9	1898 Okt. 18.5	1910.0	284 37 41.8	176 6 6.1

Ω	i	φ	μ	log a	Autorität
38° 54′ 37.4″	6° 5′ 39.0″	2° 47′ 5.0″	584.3935″	0.5222008	Berberich
129 38 0.0	11 50 6.8	6 24 35.0	866.7956	0.408060	Berberich
245 49 39.0	9 8 8.8	5 49 4.3	753.7444	0.4485217	Berberich
92 48 21.3	14 3 57.8	11 41 13.6	849.07766	0.4140395	Berberich
256 8 35.2	11 48 17.6	14 32 24.7	856.814	0.411412	Coniel
317 1 8.3	4 15 26.7	10 27 34.1	712.9520	0.464631	Berberich
295 5 4.9	7 31 34.3	3 59 22.5	834.1108	0.4191886	Berberich
299 37 51.7	9 6 14.2	7 54 31.1	627.210	0.501729	Berberich
242 44 32.8	11 12 44.4	3 53 20.9	857.3857	0.411221	Kromm
97 25 39.4	10 53 15.3	13 45 44.0	788.824	0.435346	P. V. Neugebauer
108 33 36	15 19 24	6 36 0	706.067	0.467440	Berberich
106 41 22.8	13 45 36.1	2 27 5.2	772.8598	0.4412713	Berberich
105 12 38.6	18 52 24.9	19 43 23.0	856.555	0.411501	Berberich
113 29 44.5	9 38 22.8	5 29 23.8	542.3539	0.543816	Berberich
128 20 25.3	8 5 38.4	17 36 27.4	760.372	0.445987	Coddington
58 38 36.6	12 55 45.4	12 35 49.6	761.6611	0.4454966	Boccardi
199 56 31.4	6 35 47.5	8 5 25.9	759.1427	0.4464555	Berberich
249 11 17.0	6 49 0.3	6 49 13.7	850.3282	0.4136133	Berberich
230 10 7.4	3 57 7.2	14 51 45.7	850.8462	0.4134370	Berberich
246 21 49.5	6 37 24.1	2 25 29.1	563.0697	0.532963	Berberich
187 55 42.9	7 50 38.5	16 57 18.4	878.5646	0.4041553	Berberich
9 0 42.8	5 0 17.4	12 22 39.2	1066.4426	0.348046	Witt
70 19 25.1	11 15 54.4	1 57 21.5	660.6148	0.4867056	Berberich
99 33 41.2	8 12 20.8	6 22 47.8	768.5707	0.442882	P. V. Neugebauer
61 44 9.2	4 4 24.3	3 26 47.8	723.291	0.460462	Pourteau
312 6 53.5	19 37 42.9	5 53 54.4	722.4562	0.460797	Pourteau
298 57 20.1	5 8 14.6	6 53 23.4	692.000	0.473267	Berberich
17 29 37.6	6 13 32.7	10 15 44.4	1009.005	0.364076	Villiger
220 16 20.5	9 30 55.5	7 5 38.8	842.413	0.416321	Berberich
250 0 10.6	14 33 20.9	14 55 51.9	743.475	0.452494	Berberich
117 1 48.2	1 49 14.5	10 30 56.1	641.647	0.4951403	Kreutz
88 37 32.4	12 7 37.7	8 24 45.4	973.3410	0.3744944	Berberich
303 35 8.6	10 49 39.6	12 53 0.5	2014.8293	0.1638457	Witt
174 44 5.3	22 30 11.2	4 13 50.9	1308.6711	0.2887841	Berberich
23 9 37.1	1 50 18.7	8 53 54.8	925.2776	0.3891563	Berberich
352 3 5.4	18 36 7.8	4 45 46.3	622.0996	0.5040978	Berberich
263 37 48.3	7 22 16.4	14 22 31.6	962.8945	0.3776186	Berberich
49 10 37.2	7 23 7.8	3 41 3.0	868.96	0.407338	F. Cohn
202 36 22.0	19 7 7.5	4 11 33.9	640.6167	0.495606	Coddington
292 31 23.3	1 35 48.6	6 11 19.0	1079.355	0.344562	Coddington

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
441 Bathilde . . .	März 9	12.4	12.5	9.0	1898 Dez. 14.0	1910.0	345° 51′ 15.9″	197° 38′ 38.4″
442 Eichsfeldia . .	Juni 1	11.7	12.1	9.6	1904 Sept. 20.0	1900.0	137 33 29.2	82 6 9.8
443 Photographica	Dez. 4	12.4	12.5	10.2	1906 April 3.0	1910.0	46 36 26.5	347 54 29.7
444 Gyptis	Juli 29	10.3	11.2	7.7	1903 Jan. 1.5	1910.0	149 27 0.8	151 50 26.2
445 Edna	April 7	13.6	12.6	8.4	1900 Jan. 0.0	1910.0	19 1 55.0	77 37 38.4
446 Aeternitas . .	—	—	11.4	7.9	1899 Okt. 30.0	1910.0	55 26 20.6	277 33 39.1
447 Valentine . .	Sept. 7	12.1	12.1	8.2	1899 Nov. 5.0	1914.0	358 57 31.2	319 15 0.9
448 Natalie	April 21	13.8	13.4	9.3	1910 Okt. 3.0	1910.0	28 0 0	292 17 12.2
449 Hamburga . .	Juni 26	12.6	12.0	9.0	1901 März 20.0	1910.0	38 7 28.0	44 40 10.3
450 Brigitta . . .	Aug. 17	12.9	13.2	9.3	1899 Nov. 9.5	1910.0	19 17 44.8	358 38 58.0
451 Patientia . . .	Aug. 29	10.7	10.6	6.6	1907 Mai 8.0	1910.0	146 4 45.4	332 26 55.3
452 Hamiltonia .			16.7	13.1	1899 Dez. 31.0	1910.0	296 42 7.9	46 40 54.3
453 Tea	Sept. 18	12.6	12.3	10.2	1902 Dez. 20.0	1910.0	243 0 28.6	217 47 49.9
454 Mathesis . . .	Sept. 8	12.1	11.6	8.5	1900 April 28.5	1910.0	352 56 10.1	174 34 18.7
455 Bruchsalia . .	Dez. 4	10.9	11.6	8.3	1914 Nov. 27.0	1910.0	51 31 11.1	269 3 56.9
456 Abnoba . . .	Juni 15	11.9	12.9	9.4	1910 Sept. 9.0	1910.0	90 59 37.0	2 50 39.9
457 Alleghenia . .	März 19	15.9	15.1	11.0	1900 Okt. 28.5	1910.0	351 0 33.8	129 8 9.7
458 Hercynia . .	Mai 27	14.1	13.1	9.1	1900 Okt. 31.0	1910.0	338 37 5.7	272 19 18.5
459 Signe	—	—	13.7	10.5	1900 Okt. 22.5	1910.0	348 14 27.2	17 55 45.7
460 Scania	Dez. 27	13.8	13.9	10.5	1912 Mai 1.5	1910.0	220 54 32	163 33 0.4
461 Saskia	April 16	14.4	14.3	10.1	1900 Okt. 22.5	1910.0	310 1 24.7	301 28 37.0
462 Eriphyla . . .	Aug. 10	12.9	13.5	9.7	1909 Juli 6.0	1910.0	312 5 0.0	248 12 14.2
463 Lola			14.0	11.4	1900 Okt. 31.5	1910.0	19 49 32.2	325 32 26.0
464 Megaira . . .	Dez. 21	11.9	12.2	8.6	1901 Jan. 9.5	1910.0	92 54 0.7	252 34 33.5
465 Alekto	Sept. 7	13.7	13.5	9.3	1907 April 3.5	1907.0	329 52 49.6	280 3 56.8
466 Tisiphone . .	März 3	11.5	11.8	7.3	1912 Dez. 27.0	1910.0	267 48 16.0	266 35 54.5
467 Laura	Sept. 12	13.9	14.3	10.5	1901 Febr. 11.5	1910.0	55 52 57.2	91 48 52.6
468 Lina	Mai 6	13.6	13.1	9.0	1901 Febr. 22.5	1910.0	118 51 21.4	331 2 19.6
469 Argentina . .	Juli 26	13.1	12.7	8.5	1907 April 24.5	1907.0	7 31 23.1	201 23 58.5
470 Kilia	Dez. 14	13.3	12.9	10.3	1902 Okt. 21.0	1910.0	138 56 9.4	43 50 53.3
471 Papagena . .	März 5	10.3	10.1	6.2	1903 Jan. 4.5*)	1910.0	359 59 23.0	311 22 44.5
472 Roma	Nov. 11	11.0	11.5	8.5	1908 März 23.0	1910.0	115 27 18.6	295 11 15.8
473 Nolli			13.3	9.5	1901 Febr. 13.5	1910.0	95 13 40.1	57 6 40.8
474 Prudentia . .	Okt. 19	12.2	13.0	10.2	1910 Sept. 10.5	1910.0	21 18 46.8	155 7 13.9
475 Ocllo	Dez. 1	12.6	13.5	10.2	1905 Juni 17.0	1910.0	317 7 14	301 29 56
476 Hedwig . . .	Sept. 5	11.1	11.3	8.1	1912 Jan. 12.5	1910.0	195 11 18	356 54 43.2
477 Italia	—	—	12.1	9.5	1905 Nov. 3.5	1910.0	45 50 41.6	320 20 13.9
478 Tergeste . . .	Febr. 20	10.6	10.9	7.0	1904 Mai 5.0	1910.0	81 38 55.7	240 34 25.2
479 Caprera . . .	Aug. 19	12.4	13.0	9.6	1912 April 7.5	1910.0	114 30 0	269 14 42.9
480 Hansa	Juni 16	11.8	11.5	8.3	1911 Okt. 24.5	1911.0	316 15 38.8	211 8 31.4

*) Mittlere Elemente

☊	i	φ	μ	log a	Autorität
254° 20′ 3.″7	8° 7′ 11.″7	4° 37′ 18.″6	753.″698	0.448538	Coniel
134 38 45.4	6 3 42.0	4 0 17.7	987.3699	0.3703512	Thraen
175 8 46.6	4 13 15.5	2 17 26.1	1075.9086	0.3454875	Berberich
196 16 48.3	10 12 42.1	9 58 5.9	768.449	0.442928	Fabry
293 31 41.4	21 23 34.9	11 57 45.5	624.2829	0.503084	Coddington
42 40 49.5	10 39 3.8	7 7 3.2	761.5980	0.4455205	Pauly
72 34 35.8	4 49 4.5	2 34 32.5	687.3937	0.4751131	Osten
38 52 17.9	12 41 52.5	9 54 2.5	636.618	0.497419	Berberich
85 58 49.8	3 6 4.6	10 3 32.4	870.9880	0.406664	J. Möller
15 37 54.5	10 23 9.4	5 21 56.4	677.749	0.479292	Paetsch
89 51 4.6	15 14 39.9	4 19 46.7	662.60440	0.4858348	E. Grabowski
92 51 38.8	3 13 15.1	1 13 23.3	736.622	0.455174	Palmer
11 34 23.4	5 34 28.0	6 14 36.0	1099.965	0.339085	Hessen
32 41 20.7	6 19 18.7	6 19 30.5	832.9439	0.419594	Milham
77 24 15.1	12 1 28.5	17 2 21.6	819.5533	0.424286	Berberich
229 36 15.3	14 25 25.9	10 20 0.9	762.4328	0.445203	Berberich
250 46 42.0	12 52 29.5	10 20 2.3	651.8517	0.490572	Paetsch
136 4 46.1	12 36 10.3	14 8 5.4	685.852	0.475851	Riem
29 49 51.8	10 22 44.4	12 19 50.0	832.007	0.419920	Bauschinger
205 45 2.7	4 35 26.1	5 53 49.8	792.305	0.434076	Bauschinger
156 40 56.9	1 22 20.6	11 54 22.6	624.571	0.502950	Bauschinger
105 47 33.7	3 10 39.3	4 59 18.4	728.550	0.4583648	Berberich
36 34 17.3	13 29 59.6	12 42 56.7	960.910	0.378216	Berberich
103 51 32.4	10 51 46.9	14 39 57.7	742.582	0.452841	Berberich
303 26 54.7	4 37 56.5	11 48 19.2	651.923	0.490550	Eaton
291 25 58.4	19 19 4.7	4 19 16.2	575.1293	0.5268274	Berberich
323 56 20.1	6 24 26.3	6 20 17.4	704.103	0.468247	Berberich
22 26 55.3	0 29 45.3	11 47 14.8	637.306	0.497106	Bauschinger
335 11 17.5	11 45 15.4	8 58 51.8	626.309	0.502146	Lamson
173 15 58.1	7 13 35.5	5 29 58.5	952.3542	0.380805	Kreutz
84 42 3.6	14 54 23.3	13 30 43.7	722.8922	0.4606221	Strömberg, Hernlund
127 1 58.8	15 51 45.3	5 37 39.1	875.7359	0.405089	Zappa
333 35 9.8	27 46 32.2	14 48 41.2	690.051	0.474084	Berberich
161 57 57.1	8 43 13.4	11 48 11.8	924.685	0.389342	Berberich
35 53 33	18 38 42	22 22 4	848.6730	0.414177	Strömgren
286 41 44.8	10 56 39.3	4 16 2.1	823.2035	0.4229996	Strömgren
10 44 48.5	5 18 41.0	10 57 18.2	944.572	0.383182	G. Abetti
234 47 14.1	13 9 38.6	4 58 6.5	677.025	0.4796008	de Mello e Simas
136 31 40.9	8 39 23.8	12 42 44.4	789.348	0.435159	Bauschinger
237 11 54.6	21 17 24.5	2 39 35.9	824.804	0.422438	Stracke

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
481 Emita . . .	Nov. 9	10.6	11.6	8.2	1907 März 9.0	1910.0	104 59 56.4	345 50 34.8
482 Petrina . . .	Aug. 30	11.7	12.0	8.1	1902 Mai 7.5	1910.0	288 7 6.3	85 31 11.3
483 Seppina . .	Jan. 26	12.8	12.5	7.9	1906 Dez. 19.0	1910.0	127 58 51.7	141 39 57.0
484 Pittsburghia	Jan. 13	13.3	12.9	9.7	1906 April 3.0	1910.0	235 12 27.0	185 49 40.1
485 Genua . . .	—	—	11.4	8.0	1904 Okt. 3.5	1910.0	294 18 38.9	268 33 3.0
486 Cremona . .	Okt. 28	14.4	13.5	11.0	1902 Mai 28.5	1910.0	16 33 54.5	125 7 57.5
487 Venetia . .	April 15	12.3	11.8	8.6	1907 Okt. 15.5	1910.0	348 41 50.6	278 27 28.3
488 Kreusa . . .	Juli 14	12.0	11.5	7.3	1914 Aug. 9.0	1910.0	132 23 12.0	63 55 3.7
489 Comacina .	Nov. 3	12.6	12.5	8.3	1911 Febr. 22.5	1911.0	350 12 40.1	6 12 28.6
490 Veritas . . .	Nov. 25	12.0	12.3	8.1	1912 Mai 21.5	1910.0	246 25 38	187 46 6.0
491 Carina . . .	Nov. 15	12.2	12.5	8.3	1903 Jan. 0.0	1910.0	340 41 39.1	225 2 45.0
492 Gismonda .	Dez. 30	13.5	13.1	9.0	1902 Sept. 4.0	1910.0	12 56 28.0	287 27 2.1
493 Griseldis . .			14.5	10.4	1902 Sept. 7.5	1910.0	329 46 50.6	38 26 36.2
494 Virtus . . .	—	—	12.3	8.4	1902 Nov. 27.5	1910.0	144 15 51.5	209 9 31.0
495 Eulalia . . .	—	—	12.5	9.7	1902 Nov. 21.5	1910.0	20 56 40.0	200 0 35.6
496 Gryphia . .	Juni 28	13.5	13.0	11.0	1902 Nov. 21.5	1910.0	331 47 44.7	240 34 28.4
497 Iva	März 7	14.8	13.5	9.9	1902 Nov. 4.5	1902.0	21 23 4.7	357 26 6.9
498 Tokio . . .	Juni 5	10.8	11.2	8.1	1904 März 14.0	1910.0	167 52 1.5	237 34 18.5
499 Venusia . .	Juni 22	14.0	13.0	7.7	1911 Jan. 30.5	1910.0	19 50 22.1	195 48 23.7
500 Selinur . . .	Sept. 29	11.2	12.0	8.9	1903 März 4.5	1910.0	99 39 4.6	71 48 18.3
501 Urhixidur .	Jan. 5	13.3	13.0	8.8	1903 Jan. 19.5	1910.0	119 32 12.0	346 41 52.2
502 Sigune . . .	—	—	13.8	11.2	1907 Febr. 17.0	1910.0	2 59 40.1	16 59 22.3
503 Evelyn . . .	Aug. 8	13.1	12.3	9.0	1912 Jan. 22.5	1910.0	13 33 32	38 7 0.1
504 Cora	März 13	13.7	12.7	9.3	1907 Sept. 25.0	1910.0	18 9 10.2	244 36 55.0
505 Cava	April 30	13.0	12.0	8.7	1907 Okt. 15.0	1910.0	321 50 49.2	333 59 2.7
506 Marion . . .	März 28	12.5	12.5	8.5	1911 Aug. 31.5	1910.0	266 8 32.0	143 31 21.0
507 Laodica . .	Jan. 27	12.5	12.5	8.3	1903 Febr. 24.5	1910.0	104 44 50.4	94 33 57.4
508 Princetonia	April 6	12.2	12.3	8.1	1903 April 25.5	1910.0	4 34 0.9	161 33 54.7
509 Iolanda . .	Mai 21	11.8	11.5	7.5	1906 Jan. 28.5	1910.0	39 8 50.3	153 10 33.8
510 Mabella . .	—	—	13.0	9.8	1903 Juli 18.5	1910.0	338 1 0.1	87 40 58.5
511 Davida . . .	Mai 23	10.4	9.6	5.4	1914 Mai 29.5	1910.0	153 50 17.3	328 30 26.2
512 Taurinensis	—	—	12.5	10.5	1903 Juni 26.5	1910.0	304 28 29.2	247 9 32.2
513 Centesima .	Nov. 9	11.8	12.3	8.4	1912 Mai 1.5	1910.0	195 11 0	208 58 33.7
514 Armida . .	Okt. 9	12.1	12.4	8.4	1906 Febr. 22.0	1910.0	136 47 7.0	106 3 52.0
515 Athalia . .			14.0	9.9	1903 Sept. 20.5	1910.0	317 8 30.0	288 44 14.8
516 Amherstia .	—	—	11.0	7.7	1911 Juli 26.5	1910.0	49 48 3.7	254 0 32.9
517 Edith	Sept. 16	12.3	13.1	9.0	1903 Okt. 25.5	1910.0	338 10 28.3	129 3 8.9
518 Halawe . . .	April 20	13.6	13.4	10.5	1903 Okt. 20.5	1910.0	47 47 29.0	118 29 22.7
519 Sylvania . .	Jan. 10	12.5	12.0	8.5	1903 Okt. 26.5	1910.0	37 10 6.6	298 37 26.2
520 Franziska .	—	—	13.9	10.0	1903 Okt. 27.5	1910.0	355 18 52.9	16 18 2.0

☊	*i*	*φ*	*μ*	log *a*	Autorität
67° 5′ 43.9″	9° 52′ 33.4″	9° 10′ 37.1″	782.″8688	0.437545	Osten
180 20 8.8	14 27 21.8	5 18 49.8	683.838	0.476703	P. V. Neugebauer
175 32 15.8	18 37 40.3	2 59 43.4	557.6847	0.535745	Paetsch
127 26 45.0	12 29 12.2	3 23 42.7	813.1477	0.4265580	Berberich
194 22 25.9	13 48 10.4	10 57 57.6	777.060	0.439700	P. V. Neugebauer
94 11 26.5	11 6 47.3	9 20 22.6	977.329	0.373311	Berberich
115 5 36.2	10 14 21.3	4 56 30.7	813.33738	0.4264906	Bianchi
86 37 9.6	11 35 27.1	9 23 31.4	629.360	0.5007383	Berberich
167 49 16.9	12 56 43.3	2 25 38.8	634.103	0.498564	Berberich
179 15 21.1	9 13 7.2	5 7 59.7	627.551	0.501572	Münch
176 1 20.6	18 56 44.4	3 42 55.3	620.5529	0.504821	Lassen
47 13 18.7	1 39 33.0	10 34 19.0	649.105	0.491795	Hessen
358 41 15.8	15 25 42.0	9 17 51.5	641.417	0.495244	Berberich
39 4 55.2	7 8 37.6	3 37 33.6	688.142	0.474886	G. Abetti
186 27 59.0	2 14 13.1	8 28 23.6	910.120	0.393938	P. V. Neugebauer
206 45 14.2	3 37 6.6	4 15 29.6	1103.453	0.338168	Berberich
7 11 57.9	4 56 30.9	17 39 23.2	734.522	0.456002	Kopff
98 1 47.9	9 33 4.0	12 47 51.8	823.2586	0.422980	P. V. Neugebauer
256 42 33.2	2 3 21.8	12 21 47.8	457.152	0.593297	Berberich
290 29 11.7	9 47 15.7	8 8 23.0	840.020	0.417144	Berberich
358 4 33.5	20 49 30.8	8 14 41.4	630.916	0.500024	P. V. Neugebauer
132 41 16.8	25 3 43.4	10 17 7.7	965.064	0.376967	Osten
69 31 24.1	5 3 33.4	10 12 32.5	788.475	0.435479	Liebmann
105 17 44.1	12 56 51.7	12 28 13.5	790.4529	0.434754	Osten
91 8 46.2	9 47 29.5	14 6 50.2	805.8993	0.429151	Osten
313 36 55.5	16 53 18.3	8 35 40.0	669.200	0.482967	Berberich
295 14 4.1	9 33 26.6	5 47 47.4	632.696	0.499208	Bauschinger
45 20 39.5	13 24 2.0	0 40 50.2	631.586	0.499716	Berberich
218 26 48.9	15 22 46.1	5 34 11.6	660.724	0.486658	P. V. Neugebauer
203 33 10.2	9 30 37.0	11 4 49.0	838.933	0.417520	Berberich
108 47 16.8	15 50 42.5	11 6 28.0	631.1609	0.499911	Strehlow
107 0 6.2	8 47 3.5	14 41 52.1	1094.917	0.340417	Berberich
185 49 9.3	9 28 24.1	5 0 12.4	677.958	0.479204	Berberich
270 11 57.9	3 52 8.7	2 34 14.7	667.6424	0.4836418	Berberich
122 6 47.5	2 0 50.7	10 3 36.2	645.556	0.493382	Berberich
330 25 37.3	13 2 54.4	16 2 8.0	810.70957	0.427428	Fontana
277 26 39.3	3 9 40.8	10 43 29.9	637.939	0.496818	Berberich
203 57 40.2	6 37 46.0	12 42 29.2	885.773	0.401789	Berberich
45 23 10.7	11 1 48.4	10 53 8.0	761.032	0.445736	Berberich
35 5 35.2	11 0 18.8	6 0 18.2	680.357	0.478180	Götz

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Aqu.	M	ω
521 Brixia	März 28	13.0	12.1	8.7	1909 Febr. 26.5	1910.0	73° 29′ 45.1″	312° 31′ 31.6″
522 Helga	Juli 7	12.5	12.6	7.7	1913 April 6.0	1910.0	226 59 45.2	242 7 12.6
523 Ada	—	—	12.8	9.0	1904 Jan. 27.5	1910.0	27 56 2.5	185 12 52.8
524 Fidelio . . .	Juli 3	12.7	12.4	9.2	1904 März 18.5	1910.0	103 29 53.0	77 10 52.3
525 Adelaide . .	Sept. 1	12.3	13.8	9.3	1904 März 18.5	1910.0	69 22 2.8	281 27 50.8
526 Jena	—	—	13.1	9.0	1909 Febr. 6.0	1910.0	359 19 18.1	357 35 43.8
527 Euryanthe .	Sept. 5	11.7	12.5	9.2	1904 März 20.5	1910.0	258 56 2.1	199 40 42.4
528 Rezia	Dez. 16	12.3	12.4	7.8	1904 März 24.5	1910.0	156 3 49.2	337 43 36.1
529 Preziosa . .	Febr. 26	13.2	13.0	9.1	1904 März 24.5	1910.0	138 10 8.7	336 38 38.9
530 Turandot . .	Jan. 20	13.3	12.4	8.2	1911 Sept. 3.5	1911.0	0 40 29.3	193 6 9.7
531 Zerlina . . .	Juli 24	13.6	14.0	10.5	1904 April 12.5	1910.0	329 16 0.7	53 51 42.6
532 Herculina . .	Juli 18	10.0	9.8	6.3	1904 Mai 5.5	1910.0	18 56 34.1	72 59 41.2
533 Sara	März 27	13.3	13.5	9.6	1911 Okt. 18.5	1910.0	181 18 39.1	14 46 53.8
534 Nassovia . .	Mai 8	13.3	12.8	9.2	1904 Mai 19.5	1910.0	128 10 32.6	344 51 41.9
535 Montague . .	Nov. 26	11.8	11.8	8.8	1904 Juni 3.5	1910.0	86 4 14.8	58 53 6.4
536 Merapi . . .	—	—	11.7	7.0	1904 Mai 12.0	1910.0	254 58 24.4	292 45 11.7
537 Pauly	April 6	13.3	13.1	9.1	1904 Juli 15.5	1910.0	350 27 47.1	181 9 24.9
538 Friederike .	Mai 1	13.8	13.2	9.0	1904 Juli 19.5	1910.0	318 36 36.4	222 52 26.0
539 Pamina . . .	—	—	13.1	9.7	1912 April 21.5	1910.0	218 19 30	94 0 8.3
540 Rosamunde .	Aug. 18	12.6	12.1	10.0	1911 Sept. 29.5	1910.0	190 29 0	334 20 33.8
541 Deborah . .	Okt. 9	13.1	12.9	9.4	1912 März 2.5	1910.0	277 18 20	349 26 1.9
542 Susanna . .	Okt. 6	11.9	12.8	9.0	1904 Aug. 16.5	1910.0	345 38 28.2	212 17 44.6
543 Charlotte . .	Juli 27	12.7	12.7	8.7	1904 Nov. 11.5	1910.0	348 26 5.2	105 5 43.9
544 Jetta	—	—	12.6	9.5	1904 Nov. 6.5	1910.0	89 4 27.2	338 21 35.6
545 Messalina . .	Mai 2	11.7	12.2	8.0	1908 Okt. 9.0	1910.0	312 13 12.8	325 46 47.5
546 Herodias . .	—	—	12.1	9.0	1904 Okt. 13.5	1910.0	259 39 22.4	107 27 20.0
547 Praxedis . .	—	—	12.7	9.2	1904 Nov. 17.5	1910.0	11 9 44.8	193 3 13.7
548 Kressida . .	Aug. 26	13.0	13.2	10.8	1904 Okt. 14.5	1910.0	336 36 46.1	318 28 31.0
549 Jessonda . .	Jan. 18	11.9	13.5	10.2	1904 Dez. 27.5	1910.0	358 10 57.7	153 34 32.7
550 Senta	Jan. 23	13.0	11.9	8.8	1907 Juni 17.0	1910.0	316 10 52.9	42 47 45.9
551 Ortrud . . .	Nov. 13	12.2	12.8	9.0	1905 Jan. 15.5	1910.0	12 40 32.4	62 4 4.5
552 Sigelinde . .	Sept. 14	12.3	12.2	8.0	1909 Nov. 11.5	1910.0	158 7 47	329 48 30.1
553 Kundry . . .	Dez. 29	13.0	13.7	11.5	1905 Jan. 9.5	1910.0	16 23 30.6	357 50 30.4
554 Peraga . . .	Juli 29	11.0	10.8	8.2	1905 Jan. 0.0	1910.0	41 20 15.3	124 24 50.3
555 Norma . . .	Sept. 27	14.2	13.9	9.7	1905 Jan. 14.5	1910.0	2 59 42.0	350 52 47.9
556 Phyllis . . .	Juni 27	13.0	12.5	9.7	1905 Jan. 16.5	1910.0	15 36 17.7	175 3 52.5
557 Violetta . . .	Juli 26	14.2	13.7	11.0	1905 Jan. 14.5	1910.0	1 42 52.4	190 0 23.4
558 Carmen . . .	—	—	12.2	8.5	1905 Febr. 9.5	1910.0	41 17 34.4	314 40 14.0
559 Nanon . . .	April 12	12.1	12.3	9.0	1905 April 20.5	1910.0	321 9 51.5	125 30 48.5
560 Delila	Febr. 16	12.7	13.4	10.0	1905 März 13.5	1910.0	43 34 8.2	1 57 15.1

☊	*i*	*φ*	*μ*	log *a*	Autorität
90° 27′ 43″.3	10° 29′ 22″.5	16° 16′ 9″.4	780″.20191	0.4385331	Millosevich
119 13 17.3	4 26 55.8	4 29 36.2	513.6211	0.559576	Berberich
262 13 56.0	4 18 47.0	10 8 17.0	694.113	0.472384	Berberich
327 6 38.6	8 11 46.3	7 20 50.8	829.173	0.420907	Berberich
125 54 33.5	3 15 5.6	21 46 42.6	581.342	0.523718	P. V. Neugebauer
137 54 21.8	2 8 33.4	8 5 57.9	644.22959	0.4939773	Knopf
120 46 3.7	9 39 56.4	8 38 46.0	787.582	0.435808	P. V. Neugebauer
51 49 29.5	12 42 51.3	1 8 5.7	567.149	0.530873	Berberich
65 53 19.6	11 3 40.1	5 45 4.2	676.264	0.479926	P. V. Neugebauer
129 53 35.9	8 23 25.5	10 11 37.4	610.214	0.509684	Stracke
197 49 0.0	34 33 0.7	10 54 44.6	756.474	0.447475	Berberich
108 19 46.1	16 22 36.6	10 6 31.8	768.8133	0.4427907	Götz
181 7 50.1	6 30 47.4	2 12 56.4	686.861	0.475425	Berberich
93 39 56.2	3 19 29.4	5 47 47.7	725.560	0.459556	Bauschinger
84 45 17.8	6 48 8.9	1 51 11.1	862.724	0.409423	Dugan
60 56 14.5	19 24 8.1	5 38 12.5	541.600	0.544219	Strömgren
121 24 30.4	9 46 21.3	13 3 35.4	654.252	0.489508	P. V. Neugebauer
142 24 22.1	6 36 23.2	9 22 44.9	630.980	0.499994	P. V. Neugebauer
275 38 29.8	6 47 21.6	12 20 17.6	782.672	0.437618	P. V. Neugebauer
202 1 49.9	5 33 15.2	5 3 8.0	1074.237	0.345938	P. V. Neugebauer
268 30 54.8	5 57 29.6	2 33 35.6	751.048	0.449560	P. V. Neugebauer
153 36 20.7	12 2 13.0	8 13 3.7	717.240	0.462894	Berberich
296 40 42.9	8 26 57.2	9 2 0.8	662.328	0.485955	Berberich
298 53 17.1	8 19 4.4	8 37 38.8	849.653	0.413843	Berberich
334 31 5.6	11 12 9.3	10 54 26.1	625.9062	0.502332	Berberich
22 0 59.4	14 54 14.2	6 30 4.0	847.004	0.414747	Berberich
193 29 59.2	16 56 38.9	13 46 3.9	769.074	0.442693	Berberich
108 6 36.2	3 52 2.4	10 43 4.5	1029.495	0.358255	Berberich
292 25 37.8	3 55 44.4	14 55 43.6	805.659	0.429237	Berberich
271 4 28.4	10 6 49.8	12 38 50.6	850.990	0.413388	Berberich
9 2 55.5	0 26 16.7	7 2 31.5	693.869	0.472486	Berberich
268 49 48.1	7 26 1.8	4 3 57.6	631.413	0.499796	Berberich
71 58 47.4	5 17 7.4	6 21 40.1	1073.630	0.346101	Berberich
295 48 6.5	2 56 14.3	8 54 53.0	969.164	0.375740	Abetti
130 57 4.1	2 38 44.7	8 50 39.9	624.247	0.503100	Berberich
285 55 15.3	5 14 18.5	5 46 43.4	915.845	0.392123	Berberich
293 25 59.7	2 31 9.7	5 35 58.3	929.468	0.387848	Berberich
144 19 47.1	8 21 1.0	2 14 1.0	715.481	0.463606	Berberich
112 27 18.8	9 18 13.9	3 45 2.0	794.666	0.433215	Berberich
105 36 6.3	8 27 20.5	9 4 0.5	777.661	0.439477	Berberich

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
561 Ingwelde	Nov. 8	13.4	13.9	9.7	1905 März 30.5	1910.0	67° 22′ 32.6″	302° 12′ 58.7″
562 Salome	—	—	12.9	9.0	1912 Okt. 28.5	1910.0	42 0 0	257 21 3.7
563 Suleika	Mai 5	12.2	11.1	7.8	1910 Juni 21.0	1910.0	201 13 3.6	333 39 53.9
564 Dudu	April 30	12.8	13.7	10.3	1905 Mai 9.5	1910.0	329 11 6.8	211 29 56.6
565 Marbachia	Okt. 18	13.3	12.9	10.2	1905 Mai 9.5	1910.0	69 45 0.0	290 15 39.7
566 Stereoskopia	—	—	12.0	7.5	1905 Juni 1.5	1910.0	243 19 3.6	295 28 35.7
567 Eleutheria	—	—	13.1	9.0	1905 Juni 3.5	1910.0	34 48 12.4	149 57 2.9
568 Cheruskia	Juni 22	12.9	12.3	8.6	1905 Aug. 21.5	1910.0	291 43 54.1	170 31 48.8
569 Misa	Okt. 15	11.7	12.4	9.2	1905 Juli 27.5	1910.0	271 43 15.6	137 54 52.4
570 Kythera	Jan. 2	12.7	12.7	8.1	1912 Okt. 8.5	1910.0	9 36 27	139 5 21.5
571 Dulcinea	Jan. 20	13.6	13.8	11.2	1905 Sept. 5.5	1910.0	338 13 48.0	24 30 36.1
572 Rebekka	März 13	13.6	12.9	10.5	1905 Sept. 19.5	1910.0	339 5 16.1	198 29 16.4
573 Recha	Mai 2	13.6	13.2	9.2	1905 Sept. 19.5	1910.0	346 7 29.5	28 47 17.0
574 Reginhild	April 27	15.5	14.3	12.0	1905 Sept. 30.5	1905.0	329 33 9.9	74 58 58.3
575 Renate	—	—	13.5	10.5	1912 April 1.5	1910.0	240 11 52	337 56 22.3
576 Emanuela	März 24	13.5	12.7	8.8	1905 Sept. 22.5	1910.0	11 14 22.6	31 22 7.0
577 Rhea	März 15	13.2	13.0	8.9	1905 Okt. 30.5	1910.0	71 29 57.1	321 2 10.2
578 Happelia	Nov. 3	12.2	12.0	8.6	1912 Febr. 16.5	1910.0	236 49 42.3	258 31 28.0
579 Sidonia	Juli 1	11.1	11.5	7.6	1912 Jan. 30.5	1910.0	163 38 12	231 12 32.5
580 Selene	Mai 26	14.5	13.7	9.6	1906 Febr. 12.5	1910.0	31 51 48.2	315 13 19.9
581 Tauntonia	Juni 13	13.9	13.7	9.4	1905 Dez. 24.5	1910.0	28 33 46.5	320 23 29.0
582 Olympia	—	—	12.6	9.5	1913 Dez. 2.0	1910.0	328 8 20.3	309 0 50.3
583 Klotilde	Juni 22	13.5	13.1	8.9	1906 Jan. 0.0	1910.0	295 18 26.6	239 22 21.6
584 Semiramis	März 15	12.7	11.5	8.9	1906 Jan. 15.5	1910.0	87 17 31.6	82 31 49.6
585 Bilkis	Mai 14	12.5	12.7	10.0	1906 Febr. 16.5	1910.0	7 29 29.6	326 1 33.1
586 Thekla	Sept. 22	12.9	12.9	9.0	1911 Febr. 16.5	1911.0	26 33 2.2	221 18 10.5
587 Hypsipyle	Juli 15	14.9	14.3	11.8	1906 März 18.5	1910.0	2 2 56.8	187 9 43.7
588 Achilles	Sept. 28	14.1	14.2	7.7	1907 April 15.5	1910.0	80 18 12.4	125 37 50.0
589 Croatia	Sept. 24	12.5	12.7	8.6	1906 März 23.5	1910.0	141 5 33.1	210 53 18.5
590 Tomyris	Nov. 10	12.8	13.1	9.2	1911 März 21.5	1910.0	80 10 0	329 50 3.8
591 Irmgard	—	—	13.5	10.3	1906 März 18.5	1910.0	346 2 9.3	215 31 37.9
592 Bathseba	Okt. 16	12.2	12.8	8.9	1906 März 23.5	1910.0	103 51 54.2	248 14 0.9
593 Titania	—	—	12.4	9.1	1906 März 20.5	1910.0	49 9 33.4	27 49 39.4
594 Mireille	Jan. 9	15.6	15.0	11.8	1906 März 30.5	1910.0	336 10 41.3	76 0 16.4
595 Polyxena	Nov. 1	12.2	12.1	7.8	1906 Mai 18.5	1910.0	291 37 29.7	264 26 33.1
596 Scheila	—	—	12.0	8.2	1906 Febr. 22.5	1910.0	296 49 40.2	172 26 41.9
597 Bandusia	März 4	13.6	12.8	9.5	1906 April 16.5	1910.0	263 41 28.4	293 21 8.4
598 Octavia	—	—	12.0	8.5	1906 April 16.5	1910.0	161 51 51.1	285 28 7.5
599 Luisa	Febr. 25	13.7	12.4	8.8	1906 April 28.5	1910.0	278 5 44.3	290 3 48.7
600 Musa	März 26	12.9	13.0	9.8	1906 Juni 22.5	1910.0	12 41 3.5	112 42 34.8

☊	i	φ	μ	log a	Autorität
160° 33′ 57.6″	1° 30′ 49.2″	8° 42′ 31.0″	624.357″	0.503049	Berberich
71 41 19.7	11 8 31.6	5 25 14.8	677.324	0.479473	Berberich
84 48 36.4	10 20 56.1	14 3 0.6	794.788	0.433170	Berberich
71 19 29.8	18 11 23.1	15 49 3.5	778.746	0.439074	Berberich
225 54 9.2	10 53 58.1	7 18 40.0	931.272	0.387286	Berberich
81 30 49.9	5 2 0.0	7 47 28.4	570.181	0.529329	Berberich
59 10 18.8	8 59 6.6	4 55 30.7	641.903	0.495025	Berberich
250 11 39.3	18 21 5.4	9 40 10.3	725.727	0.459489	Berberich
303 23 10.5	1 17 41.6	10 39 40.4	819.260	0.424390	Hackenberg
229 45 19.8	1 41 9.4	6 28 5.2	559.597	0.534754	Berberich
3 18 43.7	5 17 40.4	13 59 1.3	948.052	0.382116	Berberich
194 51 53.3	9 23 27.6	10 0 31.0	1008.005	0.364362	Berberich
343 54 36.1	9 52 9.7	6 22 6.9	678.763	0.478859	Berberich
336 56 23.3	5 41 19.2	14 3 52.9	1045.070	0.353908	Berberich
349 39 6.8	14 54 14.6	6 58 24.8	871.098	0.406626	Berberich
300 12 40.5	10 12 1.3	10 59 27.9	672.075	0.481725	Berberich
331 16 20.9	5 16 23.6	8 17 18.0	644.417	0.493893	P. V. Neugebauer
30 17 55.4	6 10 21.4	11 13 41.8	778.4174	0.439197	Burmeister
83 21 40.4	11 2 4.4	4 35 58.0	677.103	0.479568	P. V. Neugebauer
99 40 3.9	3 40 33.0	7 38 52.2	618.613	0.505726	P. V. Neugebauer
103 8 5.6	21 55 39.1	2 30 51.4	615.963	0.506968	Morgan
155 34 19.8	29 54 3.4	13 2 47.2	839.3517	0.417375	Berberich
261 26 58.1	8 17 15.3	8 31 10.8	629.074	0.500870	Osten
282 35 47.1	10 44 9.4	13 32 35.0	969.892	0.375523	Berberich
180 14 3.6	7 30 54.9	7 29 19.0	937.316	0.385414	P. V. Neugebauer
230 58 54.4	1 35 47.7	3 26 8.8	678.6643	0.478912	Stracke
324 13 44.6	24 58 5.3	9 35 0.3	994.165	0.368365	Berberich
315 36 1.5	10 18 24.7	8 42 54.1	295.464	0.719668	Bidschof
178 44 4.8	10 47 14.6	2 54 51.2	640.839	0.495506	P. V. Neugebauer
106 47 6.7	11 9 39.0	3 53 41.4	681.469	0.477707	Berberich
334 51 31.5	12 33 50.6	12 1 41.4	807.881	0.428440	Berberich
169 15 27.2	10 6 31.5	7 1 12.3	676.021	0.480030	P. V. Neugebauer
76 18 2.1	17 0 16.1	12 17 10.9	799.698	0.431387	Berberich
155 23 47.7	32 45 44.5	20 27 11.7	833.298	0.419471	Berberich
25 0 50.1	18 21 57.6	4 17 47.8	620.181	0.504992	P. V. Neugebauer
71 7 48.6	14 38 14.8	9 26 11.2	706.587	0.467228	Berberich
36 40 54.2	11 59 19.8	8 42 35.4	809.638	0.427811	Berberich
92 29 18.9	12 10 13.6	14 5 50.8	770.503	0.442154	Berberich
45 33 2.7	16 33 46.0	17 15 7.2	768.430	0.442925	Frederickson
139 38 9.7	10 11 18.4	3 8 12.2	817.198	0.425120	Hammond und Frederickson

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
601 Nerthus . . .	—	—	12.6	8.5	1906 Juli 12.0	1910.0	328° 53′ 13.″5	148° 32′ 23.″8
602 Marianna . .	Juli 17	12.0	12.1	8.0	1907 Jan. 0.0	1910.0	169 19 30.4	41 36 46.0
603 Timandra . .	Jan. 20	13.1	13.9	10.9	1907 Jan. 0.0	1910.0	82 16 11.2	155 30 12.8
604 Tekmessa . .	Juni 17	13.0	12.4	8.2	1906 Febr. 16.5	1910.0	85 46 42.3	22 22 2.3
605 Juvisia . . .	März 28	13.6	12.9	9.0	1906 Aug. 28.5	1910.0	38 19 40.6	13 42 45.9
606 Brangäne . .	Aug. 2	12.0	12.9	9.8	1906 Sept. 18.5	1910.0	354 2 14.3	55 33 48.3
607 Jenny	April 14	12.2	12.6	9.0	1906 Sept. 18.5	1910.0	149 52 0.0	285 42 55.8
608 Adolfine . .	Febr. 27	14.7	14.1	10.2	1906 Sept. 18.5	1910.0	2 17 9.8	69 12 50.4
609 Fulvia . . .	Jan. 30	13.1	12.8	8.9	1906 Sept. 24.5	1910.0	104 8 36.7	94 43 37.9
610 Valeska . . .	März 9	16.6	15.6	11.6	1906 Sept. 26.5	1910.0	356 4 8.3	352 44 47.4
611 Valeria . . .	April 22	14.0	12.3	9.8	1906 Okt. 11.5	1910.0	306 56 29.0	253 26 5.1
612 Veronika . .	Jan. 15	15.6	14.6	10.4	1906 Okt. 8.5	1910.0	24 11 21.4	296 32 0.0
613 Ginevra . . .	April 26	13.3	13.0	9.3	1906 Okt. 14.5	1910.0	334 44 46.7	60 58 25.9
614 Pia	Juli 16	13.8	13.7	10.2	1906 Okt. 11.5	1910.0	333 21 2.4	201 42 34.6
615 Roswitha . .	Aug. 29	12.3	12.6	9.4	1911 Dez. 26.5	1910.0	199 56 0	243 35 21.6
616 Elly	Sept. 25	12.7	12.7	9.7	1906 Okt. 8.5	1910.0	284 39 35.2	107 53 55.7
617 Patroclus . .	Mai 17	12.7	12.6	5.9	1907 Dez. 14.0	1910.0	73 1 24.7	302 25 48.2
618 Elfriede . . .	Jan. 22	12.7	12.4	8.2	1906 Okt. 25.5	1910.0	33 7 17.6	235 5 21.8
619 Triberga . .	Nov. 12	11.8	12.1	9.2	1906 Okt. 22.5	1910.0	35 14 23.9	174 46 28.1
620 Drakonia . .	Dez. 26	13.7	13.6	10.6	1906 Nov. 6.5	1910.0	58 40 35.1	332 29 0.4
621 Werdandi . .	April 23	14.2	13.9	9.9	1906 Nov. 14.5	1910.0	332 9 17.0	29 15 48.6
622 Esther . . .	—	—	12.8	10.1	1906 Dez. 18.5	1910.0	19 40 58.6	253 50 19.2
623 Chimaera . .	—	—	12.8	10.0	1907 Febr. 5.5	1910.0	51 17 38.0	123 13 4.8
624 Hektor . . .	Sept. 25	13.3	13.2	6.4	1907 März 9.0	1910.0	346 0 50.5	175 9 29.6
625 Xenia	—	—	12.1	8.9	1907 Febr. 21.5	1910.0	180 11 33.7	201 26 39.0
626 Notburga . .	—	—	11.4	8.4	1907 Febr. 21.5	1910.0	97 38 46.1	42 16 40.4
627 Charis . . .	Aug. 18	12.8	13.1	9.3	1907 März 7.5	1910.0	211 24 57.4	152 11 26.3
628 Christine . .	—	—	12.2	9.2	1907 März 12.5	1910.0	185 26 16.9	213 34 40.0
629 Bernardina .	Juni 15	14.4	13.8	9.7	1907 März 7.5	1910.0	21 17 50.2	31 40 42.7
630 Euphemia .	Dez. 2	13.4	13.5	10.3	1907 März 12.5	1910.0	5 28 27.0	42 42 27.6
631 Philippina .	Dez. 2	12.2	12.3	8.8	1907 April 11.5	1910.0	66 40 35.6	276 20 22.3
632 Pyrrha . . .	—	—	14.5	11.3	1907 April 12.5	1910.0	339 21 29.5	248 15 59.6
633 Zelima . . .	Nov. 20	13.0	12.9	9.1	1907 Juni 5.5	1910.0	285 16 53.7	181 45 9.7
634 Ute	Dez. 6	12.8	13.1	9.1	1907 Juni 5.5	1910.0	273 47 51.4	216 6 7.6
635 Vundtia . .	Okt. 12	12.2	12.6	8.5	1907 Juni 12.5	1910.0	227 8 54.1	214 50 24.0
636 Erika	Aug. 14	11.4	12.4	8.7	1907 März 2.5	1907.0	171 51 57.8	294 7 53.9
637 Chrysothemis	Juli 15	14.3	14.0	9.8	1907 April 9.5	1908.0	8 19 36.0	172 25 44.1
638 Moira	—	—	13.5	10.1	1907 Mai 20.5	1908.0	3 29 54.8	125 45 12.0
639 Latona . . .	—	—	12.1	8.2	1907 Juli 31.5	1907.0	338 0 32.2	56 25 58.3
640 Brambilla . .	Dez. 12	13.4	13.0	8.8	1907 Okt. 22.5	1907.0	81 31 30.9	24 47 52.8

☊	i	φ	μ	log a	Autorität
170° 30′ 11″.6	16° 2′ 55″.2	6° 23′ 41″.5	640″.8147	0.4955162	Svoboda
333 10 21.1	15 54 49.5	16 16 0.1	650.9343	0.490980	Varnum
343 40 3.7	8 7 47.4	8 28 45.5	869.24105	0.407243	Zimmer
12 28 55.2	4 40 7.2	14 12 14.1	627.395	0.501643	Barton
343 21 36.0	19 40 12.9	7 45 29.6	679.007	0.478756	R. Coniel
319 2 3.6	8 39 46.5	12 29 1.0	853.184	0.412642	P. V. Neugebauer
286 5 16.5	10 4 37.8	4 32 56.8	737.698	0.454752	P. V. Neugebauer
295 1 36.8	9 23 5.6	6 42 29.1	675.233	0.480369	P. V. Neugebauer
166 26 48.0	4 9 12.5	1 54 54.8	654.955	0.489196	P V. Neugebauer
21 8 56.5	12 49 15.5	14 21 25.7	658.573	0.487602	P. V. Neugebauer
190 25 3.3	13 24 37.6	7 7 13.3	690.896	0.473729	Berberich
25 8 49.0	20 34 1.4	15 33 35.2	633.186	0.498984	R. Coniel
355 47 15.7	7 44 34.2	3 9 6.9	712.025	0.465008	P. V. Neugebauer
217 34 5.6	7 12 58.7	5 27 29.8	801.678	0.430672	P. V. Neugebauer
14 0 14.0	2 46 28.3	6 12 12.3	830.420	0.420472	P. V. Neugebauer
356 6 10.9	15 0 22.4	3 40 57.9	868.924	0.407350	P. V. Neugebauer
43 28 35.9	22 3 15.1	8 14 37.9	300.532	0.714744	Heinrich
111 30 24.9	17 1 46.8	3 27 5.4	622.091	0.504102	P. V. Neugebauer
187 39 15.4	13 38 56.9	4 18 7.3	886.616	0.401514	P. V. Neugebauer
0 18 18.3	7 46 1.1	7 44 31.4	931.23617	0.387298	Stouffer
67 46 12.3	2 22 7.5	8 44 20.0	646.397	0.493006	P. V. Neugebauer
142 24 53.6	8 38 44.5	14 8 38.8	944.890	0.383084	Hammond
308 29 59.6	14 11 32.6	6 35 32.0	918.318	0.391343	Kritzinger
341 59 15.0	18 8 45.3	1 56 29.5	293.1782	0.7219167	Strömgren
127 50 8.5	12 11 42.0	13 20 54.2	828.707	0.421070	P. V. Neugebauer
341 37 38.6	25 25 19.5	13 52 38.1	859.674	0.410448	P. V. Neugebauer
142 51 33.8	6 24 23.7	3 20 20.4	708.465	0.466460	P. V. Neugebauer
112 9 31.8	11 32 38.8	2 36 13.1	860.566	0.410150	P. V. Neugebauer
88 10 36.6	9 22 49.4	9 42 19.8	636.547	0.497450	P. V. Neugebauer
105 16 41.7	13 50 34.2	6 35 43.3	825.166	0.422310	P. V. Neugebauer
225 3 1.6	18 50 0.0	4 36 8.2	761.090	0.445713	P. V. Neugebauer
358 7 33.5	2 15 26.1	11 11 27.9	816.080	0.425516	P. V. Neugebauer
147 54 45.4	10 53 4.1	5 53 13.8	672.022	0.481750	P. V. Neugebauer
134 16 37.2	12 19 26.7	10 49 5.5	666.037	0.484340	P. V. Neugebauer
184 20 14.5	11 1 17.2	4 46 31.6	637.791	0.496886	P. V. Neugebauer
35 24 23.5	7 56 27.7	9 57 10.5	714.6833	0.463929	Hall
357 34 2.6	0 20 7.2	7 22 8.8	625.5773	0.502484	Snow
103 38 18.3	7 41 31.6	9 19 44.3	784.6983	0.436869	Snow
281 26 7.9	8 36 14.0	5 43 14.7	681.063	0.477880	P. V. Neugebauer
235 58 21.3	13 20 41.9	4 27 25.9	631.6072	0.499707	Kobold

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
641 Agnes. . . .	Dez. 7	13.7	14.5	12.3	1907 Okt. 13.5	1907.0	316° 4′ 12.″8	16° 14′ 28.″8
642 Clara	—	—	13.5	9.3	1907 Okt. 13.5	1907.0	249 13 36.1	114 18 7.8
643 Scheherezade	Dez. 2	13.5	13.9	9.4	1907 Sept. 12.5	1907.0	279 19 21.7	194 48 52.3
644 Cosima . . .	April 30	13.8	13.1	10.0	1907 Nov. 6.5	1907.0	22 28 46.4	263 37 32.2
645 Agrippina .	—	—	13.5	9.3	1907 Sept. 29.5	1907.0	284 39 33.0	89 8 41.6
646 Kastalia. . .	Aug. 27	13.0	14.5	12.1	1907 Sept. 18.5	1907.0	13 16 3.9	35 25 9.3
647 Adelgunde .	Juli 7	14.2	13.5	10.8	1907 Sept. 16.5	1907.0	311 18 23.4	173 15 10.9
648 Pippa	—	—	13.1	8.9	1907 Sept. 16.5	1907.0	285 3 26.1	170 6 17.3
649 Josefa	März 30	16.2	15.1	12.1	1907 Sept. 11.5	1907.0	7 4 30.0	346 49 8.9
650 Amalasuntha	Juli 4	14.8	14.7	11.9	1907 Okt. 4.5	1907.0	3 3 39.3	176 4 27.1
651 Antikleia . .	Jan. 23	13.6	13.5	9.6	1907 Okt. 4.5	1907.0	9 56 25.8	349 23 52.7
652 Jubilatrix . .	Juni 2	13.4	13.3	10.3	1907 Nov. 4.5	1907.0	43 0 32.1	274 33 0.7
653 Berenike . .	Jan. 30	12.5	12.9	9.0	1907 Dez. 21.5	1909.0	250 49 12.4	49 0 19.2
654 Zelinda . . .	—	—	11.1	8.7	1913 Sept. 13.5	1910.0	214 19 36.5	212 30 46.2
655 Briseïs . . .	Jan. 25	12.4	12.6	8.7	1907 Dez. 11.5	1909.0	359 29 49.3	279 15 13.5
656 Beagle . . .	Febr. 28	12.9	13.6	9.5	1908 Jan. 25.5	1908.0	334 23 21.2	321 33 2.4
657 Gunlöd . . .	Aug. 27	14.2	13.7	10.6	1908 Jan. 28.5	1908.0	311 49 19.6	239 11 47.2
658 Asteria . . .	April 29	13.9	13.6	10.0	1908 Febr. 9.5	1908.0	57 58 54.4	65 6 46.0
659 Nestor. . . .	Nov. 15	14.4	14.4	7.7	1908 April 12.0	1910.0	241 41 46.0	328 4 54.2
660 Crescentia .	Okt. 15	10.8	10.6	7.6	1908 Jan. 12.5	1908.0	221 57 35.9	107 23 10.3
661 Cloelia . . .	April 28	12.7	12.7	8.8	1908 Febr. 26.5	1908.0	20 26 7.8	154 47 9.0
662 Newtonia . .	—	—	13.3	10.3	1908 April 26.5	1910.0	298 9 14.7	163 20 1.9
663 Gerlinde . .	Aug. 9	13.6	13.0	9.0	1908 Juni 27.5	1908.0	78 4 18.6	308 37 6.3
664 Judith. . . .	Aug. 17	13.2	14.2	10.0	1908 Juni 27.5	1908.0	6 21 50.5	90 4 28.3
665 Sabine . . .	Sept. 5	12.8	12.8	8.7	1908 Juli 27.5	1908.0	40 38 57.9	314 27 8.2
666 Desdemona .	Jan. 20	13.4	13.6	10.5	1908 Juli 27.5	1908.0	314 31 43.3	171 2 1.5
667 Denise . . .	Aug. 27	13.8	13.4	9.2	1908 Aug. 24.5	1908.0	236 16 13.3	304 30 8.7
668 Dora	—	—	15.0	11.5	1908 Aug. 21.5	1908.0	358 3 9.6	108 22 10.7
669 Kypria . . .	Nov. 4	14.0	13.7	9.8	1908 Aug. 27.5	1908.0	53 59 9.5	99 54 9.0
670 Ottegebe . .	—	—	13.4	9.9	1908 Nov. 15.0	1908.0	356 26 39.5	191 28 40.9
671 Carnegia . .	Nov. 5	12.7	13.1	9.0	1908 Sept. 28.5	1908.0	289 12 29.5	82 2 50.6
672 Astarte . . .	—	—	13.3	10.3	1908 Sept. 24.5	1908.0	54 53 25.9	308 21 8.9
673 Edda	—	—	13.0	9.4	1908 Sept. 24.5	1908.0	265 57 47.1	228 16 8.8
674 Rachel . . .	—	—	10.7	7.0	1912 Okt. 16.0	1910.0	236 8 0.5	39 2 32.0
675 Ludmilla . .	—	—	11.2	7.8	1908 Sept. 1.5	1908.0	315 3 23.6	148 16 2.4
676 Melitta . . .	Febr. 1	13.1	12.5	8.5	1909 Jan. 27.5	1909.0	182 57 15.1	178 45 0.1
677 Aaltje	Jan. 15	12.9	12.9	9.2	1909 März 15.0	1910.0	303 18 6.8	272 51 44.1
678 Fredegundis	April 9	13.7	12.6	9.6	1909 März 13.0	1910.0	71 37 48.3	116 51 32.8
679 Pax	April 18	12.5	10.9	7.8	1909 März 9.5	1910.0	100 19 3.7	264 45 23.3
680 Genoveva . .	Febr. 17	14.0	13.2	8.9	1909 Mai 17.5	1909.0	306 45 38.9	237 50 12.3

☊	i	φ	μ	log a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
40 38 27.0	1 43 47.5	7 15 52.8	1072.478	0.346412	P. V. Neugebauer
7 21 52.5	8 12 23.4	8 2 31.3	627.201	0.501734	P. V. Neugebauer
255 22 17.4	13 47 35.6	4 26 16.1	577.5812	0.525596	G. Struve
108 52 41.9	1 2 20.0	9 18 25.2	841.850	0.416514	Palisa
0 47 29.7	7 4 16.1	8 56 0.6	620.253	0.504958	Frederickson
302 54 6.3	6 56 23.4	12 16 10.0	1000.933	0.366401	P. V. Neugebauer
254 44 6.5	7 18 38.0	11 11 53.9	929.838	0.387734	P. V. Neugebauer
292 41 59.2	9 59 11.4	12 44 41.0	624.825	0.502832	P. V. Neugebauer
357 12 59.5	12 46 42.7	16 16 15.1	869.564	0.407136	P. V. Neugebauer
215 40 20.4	2 33 31.8	10 46 12.3	918.478	0.391292	P. V. Neugebauer
38 49 59.8	10 45 10.0	5 23 25.2	674.638	0.480624	P. V. Neugebauer
86 15 29.2	15 43 11.0	7 14 9.8	869.682	0.407097	Hopfner
133 47 9.9	11 16 46.7	2 46 34.1	679.1475	0.478695	Snow
278 14 30.5	18 10 19.3	13 19 36.0	1019.48565	0.3610838	Millosevich
130 36 38.9	6 29 29.5	4 51 28.0	686.4657	0.475592	Lamson
186 15 21.0	0 26 32.3	7 36 45.5	638.477	0.496574	P. V. Neugebauer
298 13 21.1	10 16 48.2	6 15 55.4	843.374	0.415991	P. V. Neugebauer
352 11 10.1	1 32 13.5	3 18 45.4	732.015	0.456992	P. V. Neugebauer
350 0 0.9	4 31 31.1	6 26 43.6	301.0002	0.714293	Andersen
156 37 21.5	15 14 23.6	5 52 48.2	877.992	0.404344	Frederickson
336 48 24.2	9 20 55.0	2 22 32.7	678.143	0.479124	Stracke
133 30 23.2	4 6 8.0	12 43 4.0	870.112	0.406954	Daniel
233 46 58.4	17 45 16.5	8 42 58.5	659.479	0.487204	P. V. Neugebauer
175 51 38.6	8 31 5.8	14 2 19.2	628.749	0.501020	P. V. Neugebauer
299 49 27.4	14 38 7.4	9 49 56.3	634.836	0.498231	P. V. Neugebauer
215 34 41.9	7 34 9.7	13 56 19.3	850.116	0.413686	P. V. Neugebauer
153 54 14.8	25 16 0.5	9 49 23.3	618.029	0.505998	P. V. Neugebauer
216 2 50.2	6 48 13.0	13 20 26.6	759.640	0.446266	P. V. Neugebauer
171 20 12.8	10 54 45.5	6 5 53.4	676.435	0.479854	P. V. Neugebauer
175 10 26.8	7 32 37.2	11 16 55.6	756.0233	0.447648	Hellerich
1 40 8.7	7 52 45.8	4 55 25.3	642.815	0.494614	Stracke
344 2 11.5	11 0 17.5	7 28 2.9	871.386	0.406530	P. V. Neugebauer
228 9 40.5	2 49 46.9	0 37 43.5	750.907	0.449614	Stracke
58 51 20.1	13 36 40.5	11 9 17.4	709.6147	0.465989	Fessenkow
263 53 11.9	9 43 10.0	11 41 4.4	769.260	0.442622	Stracke
151 2 6.1	12 47 37.0	6 52 59.0	659.867	0.487034	P. V. Neugebauer
274 12 14.2	8 31 38.1	1 54 12.8	710.648	0.465568	Hopfner
282 17 18.1	6 2 59.1	12 34 57.1	859.332	0.410564	Hopfner
112 53 46.9	24 25 19.4	18 9 19.2	850.9616	0.413398	Zappa
40 53 16.7	18 1 16.3	16 9 54.1	624.125	0.503154	Stracke

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
681 Gorgo	April 6	14.3	14.3	10.2	1909 Mai 17.5	1909.0	307° 53′ 36.9″	116° 2′ 59.7″
682 Hagar . . .	Okt. 14	14.4	14.8	11.4	1909 Juni 20.5	1909.0	344 6 13.2	99 29 52.4
683 Lancia . . .	Juni 17	12.4	12.4	8.3	1909 Juli 27.5	1909.0	131 33 13.3	269 8 22.6
684 Hildburg . .	—	—	13.5	10.8	1909 Aug. 25.5	1909.0	25 44 45.9	315 29 13.3
685 Hermia . . .	—	—	13.5	11.2	1909 Aug. 16.5	1909.0	10 1 32.1	78 33 44.9
686 Gersuind . .	Dez. 28	14.3	13.9	10.6	1909 Aug. 15.0	1910.0	356 24 20.4	85 29 53.0
687 Tinette . . .	Dez. 28	13.9	14.8	11.4	1909 Aug. 16.5	1909.0	332 7 51.9	50 8 34.6
688 Melanie . . .	Nov. 22	13.5	13.5	10.0	1909 Aug. 26.5	1909.0	26 57 24.7	137 55 28.0
689 Zita	Jan. 4	14.4	14.2	11.8	1909 Sept. 12.5	1909.0	1 9 16.5	186 44 23.7
690 Wratislavia .	Aug. 7	11.0	11.8	7.7	1909 Nov. 3.5	1909.0	19 24 31.9	110 45 29.6
691 Lehigh . . .	Dez. 5	12.3	12.8	8.9	1909 Dez. 31.0	1910.0	57 52 8.8	296 0 1.9
692 Hippodamia	Dez. 23	12.5	13.3	8.8	1910 Mai 30.5	1910.0	82 20 7.0	46 44 13.0
693 Zerbinetta .	Sept. 29	12.8	12.8	9.0	1909 Sept. 26.5	1909.0	85 1 34.8	291 24 21.0
694 Ekard	—	—	12.4	9.1	1909 Dez. 16.5	1913.0	49 23 40.2	108 14 27.3
695 Bella	—	—	9.2	6.2	1909 Nov. 7.5	1909.0	47 13 37	77 45 11
696 Leonora . . .	Okt. 9	11.8	13.2	9.0	1910 Febr. 1.5	1911.0	54 44 47.7	94 56 13.2
697 Galilea . . .	—	—	12.5	8.8	1910 März 5.5	1910.0	153 39 23.8	330 32 21.7
698 Ernestina . .	—	—	13.8	10.2	1910 März 10.5	1910.0	23 55 34.5	97 20 29.3
699 Hela	April 29	14.4	14.5	11.4	1913 Febr. 15.0	1910.0	193 23 27.3	88 41 35.4
700 Auravictrix .	Sept. 15	13.6	15.1	10.9	1910 Aug. 4.5	1910.0	64 9 50.5	98 40 38.9
701 [1910 *KN*] .	März 22	13.0	13.1	9.2	1910 Aug. 24.5	1910.0	106 40 38.0	306 37 20.0
702 [1910 *KQ*] .	März 14	12.2	12.0	7.8	1910 Aug. 4.5	1910.0	330 42 3.4	54 47 7.6
703 Noemi	—	—	13.9	11.9	1910 Okt. 14.5	1910.0	351 18 30.0	173 50 46.8
704 Interamnia .	Mai 30	10.7	10.3	6.3	1910 Okt. 25.5	1910.0	9 13 5.4	92 4 15.1
705 [1910 *KV*] .	Aug. 6	12.4	12.1	8.3	1910 Dez. 14.5	1910.0	305 32 0.7	96 46 36.4
706 [1910 *KX*] .	Juli 4	13.4	13.9	10.5	1910 Okt. 15.5	1910.0	10 2 0.7	28 52 0.3
707 [1910 *LD*] .	—	—	13.6	11.6	1911 Jan. 1.5	1911.0	72 42 25.7	86 16 49.0
708 Raphaela . .	Dez. 23	13.3	13.2	10.0	1911 Febr. 3.5	1910.0	308 33 43.9	196 7 48.9
709 [1911 *LK*] .	Nov. 8	12.0	12.1	8.4	1911 Febr. 19.5	1911.0	150 16 17.9	14 12 41.2
710 Gertrud . . .	Nov. 23	14.7	14.1	10.0	1911 März 18.5	1911.0	299 33 0.2	98 56 34.3
711 Marmula . .	Jan. 31	14.0	13.0	10.8	1911 März 23.5	1911.0	251 40 3.0	299 11 21.4
712 [1911 *LO*] .	Okt. 1	10.5	11.5	8.3	1911 März 31.5	1911.0	39 57 22.2	185 9 39.3
713 [1911 *LS*]. .	Dez. 7	12.7	12.9	8.3	1911 April 28.5	1911.0	220 10 2.1	128 34 51.3
714 [1911 *LW*] .	—	—	11.3	8.8	1911 Mai 25.5	1911.0	111 28 18.0	228 52 17.8
715 Transvaalia .	—	—	12.7	9.3	1911 Juni 2.5	1911.0	226 39 19.7	320 18 11.3
716 Berkeley . .	Febr. 2	13.2	13.4	9.9	1911 Aug. 18.5	1911.0	118 6 10.0	48 49 5.7
717 [1911 *MJ*] .	März 3	15.1	14.0	9.9	1911 Sept. 0.5	1911.0	344 4 48.6	17 28 52.7
718 Erida	Febr. 6	12.3	12.8	8.8	1911 Sept. 29.5	1911.0	149 0 39.9	169 56 47.2
719 Albert . . .	März 12	19.7	17.6	14.5	1911 Okt. 1.5	1911.0	7 55 11.1	151 56 42.2
720 [1911 *MW*].	April 7	12.8	13.0	9.3	1911 Okt. 22.5	1911.0	154 20 9.4	184 20 11.8

☊	*i*	φ	μ	log *a*	Autorität
179° 2′ 24.″7	12° 34′ 11.″0	4° 46′ 49.″3	648.″157	0.492218	Stracke
191 37 25.1	11 28 24.3	9 42 1.0	826.032	0.422006	Stracke
260 37 20.6	18 29 56.6	2 45 18.5	643.696	0.494218	P. V. Neugebauer
336 42 54.2	5 29 21.7	1 43 47.9	929.525	0.387831	Stracke
235 21 32.3	3 38 20.5	11 19 5.6	1061.169	0.349474	Stracke
244 5 14.7	15 43 11.2	15 27 45.3	852.865	0.412751	Pechüle
335 8 22.4	14 57 45.2	15 46 10.9	791.1977	0.434481	Palisa
171 12 55.0	10 8 29.3	7 57 50.0	803.148	0.430141	Stracke
167 50 10.9	5 42 0.6	13 18 21.0	1011.533	0.363352	P. V. Neugebauer
254 44 54.4	11 12 8.1	10 43 59.7	637.190	0.497159	Weender
88 54 34.6	13 1 36.5	7 16 10.8	678.253	0.479076	Reynolds
65 4 58.8	26 23 25.3	9 29 46.7	570.8219	0.529004	Dubosq
352 22 15.2	14 11 37.3	1 28 32.6	701.873	0.469166	P. V. Neugebauer
231 27 21.7	15 45 23.4	18 52 2.3	813.347	0.426488	Nicholson, Bower
275 38 14	13 55 42	8 56 35	877.30	0.40457	Davis
302 57 52.3	12 53 1.7	13 56 7.4	621.910	0.504186	Snow
16 4 17.3	15 8 8.3	9 1 45.6	725.913	0.459414	Berberich
41 25 28.0	11 32 4.0	6 20 11.3	729.893	0.457832	Berberich
243 59 32.5	15 13 16.1	24 23 42.8	840.1198	0.4171103	Berberich
96 33 6.5	6 47 51.2	6 2 33.3	1065.639	0.348265	Palisa
244 53 6.7	7 4 44.2	1 49 17.2	678.435	0.478999	Palisa
290 30 16.4	20 32 20.8	0 52 52.9	621.8557	0.504212	Stracke
213 30 47.3	2 26 24.0	8 0 48.5	1106.287	0.337426	Hopfner
281 12 57.7	17 18 12.6	8 56 8.6	663.518	0.485436	Cerulli
3 0 49.1	25 0 53.3	3 9 8.4	708.653	0.466382	Hopfner
325 39 25.7	14 30 43.5	11 15 23.9	785.6367	0.436517	Stracke
281 47 33.8	4 17 38.2	6 52 34.1	1101.230	0.338754	Stracke
355 41 22.6	3 30 46.0	4 53 7.8	812.569	0.426764	Berberich
324 55 44.6	16 18 20.4	6 37 54.3	714.180	0.464142	Stracke
140 41 28.6	1 44 43.0	7 5 51.7	646.829	0.492812	Hopfner
357 3 49.1	6 7 17.5	11 12 23.7	1062.444	0.349134	Hopfner
230 27 31.9	12 44 39.2	11 43 42.0	815.455	0.425740	Stracke
220 50 18.1	10 8 9.5	9 7 54.5	566.8338	0.531417	Stracke
233 51 2.7	14 21 9.7	2 35 16.8	874.166	0.405610	Stracke
46 22 33.2	14 9 59.8	3 47 48.5	780.97	0.438248	F. Cohn
146 57 6.6	8 27 42.5	5 5 17.2	754.565	0.448206	Stracke
346 33 1.6	1 45 1.8	14 53 37.5	634.630	0.498324	Stracke
39 22 46.8	7 3 55.1	12 5 35.0	664.65	0.484943	F. Cohn
185 32 37.0	10 49 48.4	32 43 18.6	853.665	0.412479	v. Tolnay
36 4 3.8	2 24 11.7	1 12 3.9	735.812	0.455493	Berberich

Nr. und Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Aequ.	M	ω
721 Tabora . . .	März 1	14.3	14.0	9.2	1911 Okt. 18.5	1911.0	350° 8′ 47.4″	347° 47′ 24.5″
722 Frieda . . .	Sept. 24	12.9	13.5	11.5	1911 Okt. 18.5	1911.0	72 41 2.6	256 45 36.1
723 Hammonia .	April 25	13.6	13.3	9.4	1911 Okt. 21.5	1911.0	349 26 13.7	243 55 53.1
724 Hapag . . .	Juni 21	16.3	15.5	12.8	1911 Okt. 21.5	1911.0	351 55 48.2	203 13 50.7
725 Amanda . .	Mai 23	14.4	13.5	10.5	1911 Okt. 21.5	1911.0	2 57 43.0	320 30 45.5
726 [1911 *NM*] .	Juli 19	13.7	13.4	10.7	1911 Nov. 22.5	1911.0	0 28 29.2	177 49 51.0
727 Nipponia . .	Aug. 19	12.5	12.7	9.7	1912 Febr. 16.5	1912.0	72 22 52.3	272 42 48.3
728 [1912 *NU*] .	Nov. 28	14.2	14.3	12.0	1912 März 10.0	1912.0	2 10 16.5	66 30 34.8
729 [1912 *OD*] .	Okt. 6	13.4	12.9	9.4	1912 Febr. 9.5	1912.0	302 46 12.1	87 22 54.7
730 [1912 *OK*] .	—	—	14.7	12.5	1912 Mai 10.5	1912.0	0 28 48.8	120 38 21.4
731 [1912 *OQ*] .	Okt. 27	12.3	12.7	8.8	1912 Mai 19.5	1912.0	241 44 5.8	279 47 47.3
732 [1912 *OR*] .	Dez. 31	13.3	13.1	10.3	1912 April 24.5	1912.0	335 53 7.0	63 43 43.2
733 [1912 *PF*] .	—	—	13.0	8.5	1912 Sept. 19.5	1912.0	215 50 53.8	170 8 30.4
734 [1912 *PH*] .	Febr. 1	13.0	13.4	9.2	1912 Okt. 11.5	1912.0	323 54 9.4	67 52 14.3
735 [1912 *PY*] .	Febr. 26	13.8	12.4	9.0	1912 Dez. 9.5	1910.0	44 29 19.4	307 27 11.8
736 [1912 *PZ*] .	März 18	13.2	12.3	10.2	1912 Nov. 16.5	1910.0	63 2 23.8	198 51 42.3
737 [1912 *QB*] .	Febr. 7	12.4	11.2	8.1	1912 Dez. 7.5	1913.0	84 56 22.8	132 6 47.1
738 [1913 *QO*] .	April 9	13.2	13.4	9.5	1913 Jan. 7.5	1910.0	303 2 50.6	33 45 57.3
739 [1913 *QR*] .	Juli 4	12.3	12.2	8.8	1913 März 1.5	1910.0	341 41 25.5	40 43 47.5
740 [1913 *QS*] .	Juni 5	12.5	12.6	8.6	1913 März 1.5	1910.0	354 31 7.8	43 17 52.2
741 [1913 *QT*] .	Juni 16	13.0	13.0	9.6	1913 Febr. 10.5	1910.0	351 37 10.0	56 29 20.9
742 [1913 *QU*] .	April 16	13.0	12.5	8.6	1913 Febr. 23.5	1910.0	142 22 3.7	285 13 24.8
743 [1913 *QV*] .	Mai 26	13.3	13.0	9.5	1913 März 1.5	1910.0	98 8 17.2	182 34 42.1
744 [1913 *QW*] .	Juni 6	13.6	13.6	9.4	1913 Febr. 27.5	1913.0	5 17 16.4	12 27 15.1
745 [1913 *QX*] .	Mai 21	13.7	13.6	9.3	1913 März 7.5	1910.0	23 24 5.3	2 1 54.6
746 [1913 *QY*] .	April 20	12.3	12.5	8.4	1913 März 7.5	1910.0	219 45 53.2	306 24 7.6
747 [1913 *QZ*] .	Mai 3	12.2	10.6	6.8	1913 März 9.5	1913.0	84 50 56.6	272 47 51.2
748 [1913 *RD*] .	Mai 8	13.8	13.5	8.2	1913 März 8.5	1910.0	57 52 37.8	196 4 12.8
749 [1913 *RF*] .	Okt. 20	14.8	14.0	11.8	1913 April 5.5	1913.0	331 58 40.3	126 49 20.6
750 [1913 *RG*] .	Aug. 21	14.4	13.8	11.1	1913 April 28.5	1913.0	62 3 54.4	72 12 56.3
751 [1913 *RK*] .	Aug. 5	11.1	11.5	8.5	1913 Mai 9.5	1910.0	196 13 34.7	301 27 50.4
752 [1913 *RL*] .	Aug. 21	13.3	13.0	10.2	1913 Mai 10.5	1913.0	106 42 57.4	21 5 31.3
753 [1913 *RM*] .	Nov. 11	14.3	13.3	10.9	1913 April 30.5	1913.0	333 41 3.2	200 56 47.4
754 [1906 *UT*] .	Febr. 16	12.6	12.8	8.9	1906 Aug. 22.5	1910.0	223 4 49.8	300 25 51.8

☊	i	φ	μ	log a	Autorität
41° 15′ 25″.5	8° 24′ 38″.7	6° 48′ 1″.5	526″.849	0.552214	Berberich
45 35 57.3	5 34 29.8	8 0 39.0	1112.950	0.335687	Berberich
164 5 39.7	4 58 2.7	3 30 31.5	685.395	0.476044	Berberich
204 17 18.8	11 36 13.7	14 38 23.4	935.489	0.385979	Berberich
68 44 16.7	3 47 42.5	12 45 9.2	859.356	0.410556	Berberich
242 51 6.5	13 9 6.5	8 23 7.4	940.472	0.384444	Stracke
133 4 27.8	15 3 17.3	6 8 14.7	862.902	0.409362	Stracke
81 33 3.0	4 14 37.6	5 17 54.0	1036.278	0.356354	Hopfner
124 37 29.0	17 56 45.5	6 8 6.2	768.760	0.442812	Stracke
94 53 14.2	4 13 58.6	10 13 31.6	1055.373	0.351068	Burmeister
47 24 39.7	10 41 46.5	8 24 5.8	684.848	0.476274	Burmeister
173 9 3.6	10 59 51.7	2 37 14.8	919.068	0.391110	Stracke
342 28 34.0	20 18 14.0	3 22 28.3	566.132	0.531392	Berberich
4 21 33.9	5 47 9.6	6 21 3.4	632.500	0.499304	Stracke
43 39 23.6	16 43 23.3	18 47 17.8	786.957	0.436037	Berberich
135 26 24.3	4 22 22.3	9 30 52.4	1085.496	0.342919	Berberich
185 10 3.5	12 17 50.0	13 53 36.7	848.962	0.414079	Berberich
132 37 50.6	3 31 9.5	3 4 31.2	673.347	0.481179	Berberich
136 50 58.7	20 44 49.1	8 2 23.4	783.999	0.437127	Berberich
117 3 1.0	10 52 11.5	6 22 13.1	664.782	0.484885	Berberich
101 3 33.8	8 25 49.1	3 57 45.3	791.512	0.434366	Berberich
64 55 31.6	11 13 35.3	6 50 40.4	679.176	0.478683	Berberich
229 45 23.7	4 48 26.6	3 13 50.6	760.135	0.446077	Berberich
143 50 54.4	7 45 10.7	6 3 57.5	627.251	0.501710	Przybyllok
127 12 40.4	13 30 15.4	5 11 15.5	606.775	0.511319	Berberich
2 48 23.8	17 24 37.2	13 54 33.3	648.409	0.492104	Berberich
131 36 20.5	18 7 27.2	20 9 31.4	685.927	0.475819	Berberich
266 54 56.0	2 15 11.7	7 47 56.9	451.354	0.596942	Berberich
109 33 12.2	5 23 8.0	9 59 16.9	1055.977	0.350901	Berberich
69 50 16.4	3 56 10.9	6 52 24.1	931.672	0.387162	Stracke
78 50 45.7	15 34 34.1	8 53 25.2	872.265	0.406239	Berberich
84 40 57.9	5 59 5.6	4 14 55.4	917.800	0.391506	Stracke
61 13 49.7	10 7 21.0	12 46 31.4	998.424	0.367128	Przybyllok
180 23 20.4	24 19 16.4	2 54 43.7	688.880	0.474575	Berberich

Name	Opposition 1914	Gr.	m_0	g	Epoche und Oskulation	Mittl. Aequ.	M	ω
1894 *BD*	—	—	13.3	11.3	1894 Nov. 1.5	1900.0	337° 18′ 8″.4	356° 39′ 18″.9
1900 *GA*	—	—	18.0	16.0	1900 Juni 30.5	1900.0	350 15 39.3	196 8 5.5
1901 *GY*	—	—	13.1	9.7	1908 März 22.5	1910.0	73 37 44.1	280 3 49.7
1902 *JT*	—	—	13.7	9.6	1902 Okt. 23.5	1902.0	33 40 54.1	245 30 35.0
1904 *OR*	—	—	14.6	10.5	1904 Okt. 3.5	1904.0	357 7 3.9	60 22 31.4
1906 *WA*	—	—	13.6	9.5	1906 Okt. 25.5	1906.0	335 44 25.8	235 55 34.2
1906 *WF*	—	—	—	—	1906 Nov. 21.5	1906.0	0 47 23.5	338 59 20.9
1908 *CK*	—	—	13.8	10.0	1908 März 3.5	1910.0	337 46 56.6	298 2 35.3
1908 *DC*	—	—	—	—	1908 April 26.5	1908.0	22 46 15	345 36 5
1908 *DW*	—	—	16.5	13.3	1908 Sept. 21.5	1908.0	19 30 32.5	129 26 55.2
1911 *LU*	—	—	13.0	8.7	1911 April 28.5	1911.0	27 5 36.5	135 0 19.0
1911 *MF*[d]	—	—	—	—	1911 Juli 20.5	1911.0	353 6 7	22 1 24
1912 *NW*	—	—	11.0	6.5	1912 Febr. 13.5	1912.0	200 56 17	38 49 3
1912 *PE*	—	—	11.3	7.0	1912 Juni 9.5	1912.0	195 56 16.9	313 16 58.4

KREISBAHNEN

Planet	m_0	Epoche	Argument der Breite	☊	i	μ	log a
1893 *C*	13.5	1893 Jan. 23.5	167° 48′ 0″	321° 27′ 42″	3° 33′ 48″	1182″.9	0.31804
1893 *X*	13	1893 März 21.5	112 50 17	72 17 48	1 34 4	423.40	0.61550
1893 *Y*	13	1893 April 17.5	79 39 46	124 24 8	0 18 4	549.95	0.53980
1894 *AW*	12	1894 Febr. 3.5	62 6 12	21 39 36	4 33 42	996.0	0.36781
1896 *CU*	12.0	1896 Sept. 3.5	100 46 25	243 53 26	5 51 46	692.17	0.47320
1898 *DW*	13.5	1898 Nov. 19.5	181 1 17	229 11 55	14 40 58	841.15	0.41675
1898 *DX*	—	1898 Nov. 19.5	182 5 12	227 3 49	22 26 34	589.39	0.51973
1898 *DY*	13.5	1898 Nov. 13.5	198 18 19	216 46 18	3 15 55	673.12	0.48128
1898 *DZ*	12.5	1898 Nov. 17.5	174 26 37	239 40 46	3 53 1	881.73	0.40312
1898 *EA*	13	1898 Nov. 13.5	181 15 2	227 33 5	27 23 43	508.71	0.56236
1900 *FL*	14.0	1900 Sept. 28.5	152 4 21	197 51 1	6 39 4	768.78	0.44280
1902 *HY*	12.5	1902 Juni 2.5	164 42 33	68 13 39	9 0 13	656.86	0.48836
1903 *LD*	12.5	1903 Jan. 18.5	181 6 10	300 36 51	15 33 1	754.21	0.44834
1903 *LX*[a]	—	1903 Sept. 1.5	38 57 42	287 19 24	7 21 12	709.92	0.46587
1903 *LZ*	13.5	1903 Aug. 30.5	153 22 42	189 17 0	9 22 0	759.30	0.44640
1903 *MC*	13.2	1903 Sept. 29.5	185 33 38	167 13 30	26 16 59	564.44	0.53225
1903 *MD*	13.5	1903 Sept. 29.5	358 34 29	354 45 52	14 35 22	654.46	0.48942
1903 *MF*	13.5	1903 Sept. 29.5	183 25 53	171 9 13	10 55 45	783.09	0.43746
1903 *MM*	12.7	1903 Okt. 14.5	181 15 12	195 37 36	4 56 48	714.71	0.46392
1903 *MN*	12.0	1903 Okt. 24.5	350 9 6	39 35 0	7 51 54	945.90	0.38276
1903 *NF*	12	1903 Dez. 18.5	216 0 54	230 11 48	15 16 54	849.85	0.41380
1903 *NG*	13.0	1903 Nov. 14.5	178 3 42	230 52 18	8 38 12	649.73	0.49152

Mittleres Aequinoktium des Jahresanfangs

☊	i	φ	μ	log a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
72 35 44.3	3 27 48.4	8 33 50.4	1104.735	0.337832	Berberich
97 36 55.6	6 56 23.1	16 22 55.0	1122.174	0.333298	Leuschner
181 27 0.5	4 27 9 1	5 20 48.4	791.182	0.434487	Berberich
80 11 55.9	2 28 7.5	11 54 31.0	637.160	0.497172	Berberich
301 18 11.1	5 28 38.8	9 4 57.1	642.729	0.494652	Berberich
193 50 5.4	9 15 15.4	8 51 34.8	649.218	0.491744	P. V. Neugebauer
60 53 33.7	13 55 18.2	8 18 35.7	661.939	0.486126	Rootsmann
261 12 27.9	2 44 3.0	9 21 9.6	694.945	0.472037	Berberich
209 11 4	19 56 6	6 52 25	612.32	0.50869	Burns, Mc. Kellean
178 11 33.9	6 17 23.5	27 13 22.8	818.534	0.42464	Palisa
45 55 48.3	18 52 40.3	10 34 32.9	617.55	0.506226	F. Cohn
288 46 49	12 17 17	20 8 9	741.70	0.45319	Wood
253 55 31	20 43 7	8 13 47	568.36	0.53028	Wood
106 29 33.6	5 40 41.7	7 8 5.7	614.624	0.507598	Wood

KREISBAHNEN

Planet	m_0	Epoche	Argument der Breite	☊	i	μ	log a
			° ′ ″	° ′ ″	° ′ ″	″	
1904 *OP*	13.7	1904 Sept. 5.5	45 37 34	293 4 6	13 37 4	735.20	0.45572
1904 *QW*	12.0	1904 April 4.5	70 11 57	108 54 13	11 14 22	716.53	0.46318
1905 *RN*	13.5	1905 Okt. 24.5	63 34 0	336 9 12	3 12 42	828.93	0.42100
1906 *UK*	12.9	1906 Mai 14.5	102 21 52	131 2 1	12 20 4	776.69	0.43984
1906 *VG*	12.9	1906 Sept. 24.5	331 43 58	37 51 57	3 2 43	658.81	0.48750
1906 *VW*	13.5	1906 Nov. 11.5	190 13 12	207 30 36	9 19 42	799.40	0.43150
1906 *VX*	13.3	1906 Nov. 11.5	350 31 6	46 39 30	7 44 30	588.99	0.51994
1906 *WD*	12.2	1906 Okt. 26.5	195 49 0	203 7 0	48 8 0	387	0.6595
1906 *WH*	13.2	1906 Nov. 11.5	202 39 45	213 29 5	1 51 35	1195.06	0.31508
1907 *AL*	13.6	1907 Nov. 4.5	185 57 56	223 4 3	11 5 49	818.34	0.42471
1907 *AO*	13.8	1907 Nov. 1.5	167 38 51	238 35 59	15 53 49	619.68	0.50523
1907 *XV*	13.5	1907 März 12.5	68 19 30	82 27 36	10 52 24	567.56	0.53000
1907 *YR*	13.5	1907 April 18.5	85 46 47	97 13 3	6 59 40	470.40	0.58510
1908 *BN*	18.0	1908 Jan. 18.5	254 52 11	206 40 46	11 9 16	405.13	0.62828
1908 *MF*	12	1908 Dez. 19.5	338 19 58	111 32 39	25 27 41	700.34	0.46980
1910 *JY*	13.0	1910 April 5.5	356 14 50	193 7 28	14 54 50	654.05	0.48960
1911 *MU*	13.0	1911 Okt. 16.5	203 2 2	169 53 57	16 57 24	578.89	0.52494
1912 *OL*	13.9	1912 April 12.5	334 2 11	225 49 14	16 51 4	277.91	0.73740
1912 *ON*	13.9	1912 April 12.5	303 31 54	258 5 35	4 58 59	312.48	0.70345
1912 *OX*	—	1912 April 24.5	7 42 17	204 16 17	0 21 17	831.3	0.42021
1912 *OY*	—	1912 April 24.5	201 16 11	11 3 55	7 58 16	959.2	0.37880

Mittleres Aequinoktium des Jahresanfangs

(219) Thusnelda 11.8 1912*)

1914	α		δ		log Δ
Jan. −8	6ʰ 54.9ᵐ	8.5	+ 5° 38′	3	0.193
0	6 46.4	8.5	+ 5 41	12	0.194
8	[1] 6 37.9	7.6	+ 5 53	22	0.200
16	6 30.3	6.5	+ 6 15	31	0.211
24	6 23.8	4.9	+ 6 46	36	0.226
Febr. 1	6 18.9		+ 7 22		0.244

(342) Endymion 12.1 1912

1914	α		δ		log Δ
Jan. −8	6 56.5	8.0	+13 32	19	0.106
0	6 48.5	7.9	+13 13	10	0.103
8	[1] 6 40.6	7.3	+13 3	3	0.105
16	6 33.3	6.0	+13 0	3	0.112
24	6 27.3	4.2	+13 3	9	0.125
Febr. 1	6 23.1		+13 12		0.142

(570) Kythera 12.7 1912

1914	α		δ		log Δ
Jan. −8	6 56.8	6.4	+21 0	5	0.384
0	6 50.4	6.6	+21 5	6	0.383
8	[2] 6 43.8	6.2	+21 11	6	0.385
16	6 37.6	5.5	+21 17	5	0.392
24	6 32.1	4.4	+21 22	4	0.400
Febr. 1	6 27.7		+21 26		0.412

(71) Niobe 11.2 1912

1914	α		δ		log Δ
Jan. −8	7 10.7	10.8	+43 56	16	0.310
0	6 59.9	11.0	+43 40	32	0.304
8	[3] 6 48.9	10.3	+43 8	46	0.302
16	6 38.6	9.2	+42 22	60	0.304
24	6 29.4	7.1	+41 22	68	0.310
Febr. 1	6 22.3		+40 14		0.319

(689) Zita 14.4 1909

1914	α		δ		log Δ
Jan. −8	7 14.9	8.8	+13 26	19	0.143
0	7 6.1	9.0	+13 45	26	0.143
8	[4] 6 57.1	8.4	+14 11	30	0.148
16	6 48.7	7.4	+14 41	31	0.159
24	6 41.3	5.8	+15 12	33	0.175
Febr. 1	6 35.5		+15 45		0.194

(501) Urhixidur 13.3 1910

1914	α		δ		log Δ
Jan. −8	7 19.4	9.8	+50 56	14	0.382
0	7 9.6	10.2	+51 10	2	0.381
8	[5] 6 59.4	9.7	+51 8	19	0.384
16	6 49.7	8.6	+50 49	32	0.389
24	6 41.1	7.1	+50 17	44	0.398
Febr. 1	6 34.0		+49 33		0.408

(94) Aurora 11.0 1912*)

1914	α		δ		log Δ
Jan. −8	7ʰ 17.8ᵐ	7.6	+34° 6′	18	0.309
0	7 10.2	7.9	+34 24	8	0.307
8	[5] 7 2.3	7.8	+34 32	—	0.308
16	6 54.5	6.9	+34 32	9	0.313
24	6 47.6	5.5	+34 23	17	0.321
Febr. 1	6 42.1		+34 6		0.333

(410) Chloris 12.9 1912

1914	α		δ		log Δ
Jan. −8	7 17.9	7.7	+23 46	33	0.375
0	7 10.2	7.9	+24 19	31	0.370
8	[5] 7 2.3	7.8	+24 50	28	0.368
16	6 54.5	7.1	+25 18	24	0.370
24	6 47.4	6.2	+25 42	20	0.376
Febr. 1	6 41.2		+26 2		0.385

(111) Ate 10.7 1912

1914	α		δ		log Δ
Jan. −8	7 21.9	8.2	+25 46	2	0.136
0	7 13.7	8.6	+25 44	4	0.129
8	[6] 7 5.1	8.4	+25 40	9	0.128
16	6 56.7	7.4	+25 31	14	0.132
24	6 49.3	5.8	+25 17	18	0.141
Febr. 1	6 43.5		+24 59		0.156

(105) Artemis 11.8 1912

1914	α		δ		log Δ
Jan. −8	7 22.7	7.5	−10 32	16	0.257
0	7 15.2	7.9	−10 48	8	0.246
8	[6] 7 7.3	7.9	−10 40	29	0.241
16	6 59.4	7.2	−10 11	49	0.240
24	6 52.2	6.0	− 9 22	64	0.242
Febr. 1	6 46.2		− 8 18		0.248

(235) Carolina 12.5 1912

1914	α		δ		log Δ
Jan. −8	7 25.3	7.4	+29 56	41	0.324
0	7 17.9	8.0	+30 37	31	0.319
8	[7] 7 9.9	7.9	+31 8	23	0.318
16	7 2.0	7.4	+31 31	16	0.321
24	6 54.6	6.2	+31 47	9	0.328
Febr. 1	6 48.4		+31 56		0.338

(175) Andromache 12.9 1911

1914	α		δ		log Δ
Jan. −8	7 25.1	6.8	+26 20	14	0.421
0	7 18.3	7.0	+26 34	13	0.419
8	[7] 7 11.3	6.8	+26 47	10	0.419
16	7 4.5	6.5	+26 57	6	0.423
24	6 58.0	5.5	+27 3	3	0.430
Febr. 1	6 52.5		+27 6		0.440

*) Die Jahreszahl gibt das Jahr der letzten mit Sicherheit identifizierten Beobachtung an. Ein * bei der Nr. weist auf die weiter unten folgende ausführlichere Ephemeride hin.

(146) Lucina 11.2 1912

1914	α		δ		log Δ
Jan. −8	7h 29m.6	7.5	+28° 27′	55	0.268
0	7 22.1	8.4	+29 22	49	0.261
8	[7] 7 13.7	8.4	+30 11	42	0.259
16	7 5.3	7.8	+30 53	34	0.261
24	6 57.5	6.6	+31 27	25	0.267
Febr. 1	6 50.9		+31 52		0.278

(394) Arduina 13.7 1906

1914	α		δ		log Δ
Jan. −8	7 30.4	7.7	+27 12	29	0.329
0	7 22.7	8.2	+27 41	26	0.326
8	[8] 7 14.5	8.0	+28 7	20	0.328
16	7 6.5	7.4	+28 27	14	0.333
24	6 59.1	6.3	+28 41	8	0.342
Febr. 1	6 52.8		+28 49		0.354

(311) Claudia 12.9 1905 (1912)

1914	α		δ		log Δ
Jan. 0	7 27.7	7.6	+24 2	24	0.277
8	7 20.1	7.6	+24 26	21	0.274
16	[9] 7 12.5	7.1	+24 47	17	0.276
24	7 5.4	6.1	+25 4	12	0.282
Febr. 1	6 59.3	4.6	+25 16	8	0.292
9	6 54.7		+25 24		0.305

(594) Mireille 15.6 1906

1914	α		δ		log Δ
Jan. 0	7 29.4	7.7	−14 1	35	0.316
8	7 21.7	8.0	−13 26	57	0.305
16	[9] 7 13.7	7.9	−12 29	77	0.298
24	7 5.8	7.1	−11 12	95	0.294
Febr. 1	6 58.7	5.9	− 9 37	109	0.293
9	6 52.8		− 7 48		0.297

(519) Sylvania 12.5 1912

1914	α		δ		log Δ
Jan. 0	7 36.2	8.9	+36 5	31	0.311
8	7 27.3	8.7	+36 36	21	0.312
16	[10] 7 18.6	8.2	+36 57	10	0.316
24	7 10.4	7.1	+37 7	—1	0.325
Febr. 1	7 3.3	5.4	+37 6	11	0.337
9	6 57.9		+36 55		0.351

(54) Alexandra 11.9 1912

1914	α		δ		log Δ
Jan. 0	7 40.1	8.4	+28 58	2	0.358
8	7 31.7	8.4	+29 0	—3	0.356
16	[11] 7 23.3	8.1	+28 57	9	0.357
24	7 15.2	7.5	+28 48	15	0.362
Febr. 1	7 7.7	6.6	+28 33	19	0.370
9	7 1.1		+28 14		0.381

(302) Clarissa 13.4 1909

1914	α		δ		log Δ
Jan. 0	7h 48m.1	8.8	+27° 17′	21	0.095
8	7 39.3	9.2	+27 38	16	0.092
16	[12] 7 30.1	8.7	+27 54	7	0.096
24	7 21.4	7.4	+28 1	—5	0.104
Febr. 1	7 14.0	5.4	+27 56	21	0.119
9	7 8.6		+27 35		0.144

(484) Pittsburghia 13.3 1912

1914	α		δ		log Δ
Jan. 0	7 49.9	7.0	+15 26	46	0.269
8	7 42.9	7.6	+16 12	50	0.265
16	[13] 7 35.3	7.4	+17 2	50	0.264
24	7 27.9	6.8	+17 52	50	0.268
Febr. 1	7 21.1	5.4	+18 42	46	0.276
9	7 15.7		+19 28		0.288

(32) Pomona 10.5 1912

1914	α		δ		log Δ
Jan. 0	7 54.0	7.4	+12 28	8	0.204
8	7 46.6	8.0	+12 36	11	0.196
16	[14] 7 38.6	7.7	+12 47	15	0.192
24	7 30.9	7.0	+13 2	19	0.193
Febr. 1	7 23.9	5.8	+13 21	22	0.199
9	7 18.1		+13 43		0.209

(84) Klio 12.0 1912

1914	α		δ		log Δ
Jan. 0	8 1.5	9.8	+29 37	8	0.225
8	7 51.7	9.9	+29 45	1	0.224
16	[15] 7 41.8	9.7	+29 46	—7	0.227
24	7 32.1	8.6	+29 39	14	0.235
Febr. 1	7 23.5	6.9	+29 25	21	0.247
9	7 16.6		+29 4		0.264

(677) Aaltje 12.9 1912

1914	α		δ		log Δ
Jan. 0	8 0.9	7.0	+16 29	6	0.289
8	7 53.9	7.6	+16 23	2	0.283
16	[15] 7 46.3	7.4	+16 21	—	0.280
24	7 38.9	6.8	+16 21	1	0.282
Febr. 1	7 32.1	5.7	+16 22	1	0.288
9	7 26.4		+16 23		0.297

(612) Veronika 15.6 1906

1914	α		δ		log Δ
Jan. 0	8 6.3	8.6	+48 4	31	0.464
8	7 57.7	8.9	+48 35	18	0.463
16	[15] 7 48.8	9.1	+48 53	6	0.465
24	7 39.7	8.3	+48 59	—8	0.470
Febr. 1	7 31.4	7.3	+48 51	19	0.477
9	7 24.1		+48 32		0.489

(169) Zelia 11.9 1912

1914	α		δ		log Δ
Jan. 0	8ʰ 8.7ᵐ	8.4	+28° 9′	21	0.217
8	8 0.3	9.4	+28 30	17	0.212
16	[16] 7 50.9	9.4	+28 47	11	0.212
24	7 41.5	8.6	+28 58	3	0.216
Febr. 1	7 32.9	7.5	+29 1	8	0.226
9	7 25.4		+28 53		0.240

(338) Budrosa 12.1 1912

1914	α		δ		log Δ
Jan. 8	8 5.0	7.4	+19 15	6	0.286
16	7 57.6	7.6	+19 21	6	0.283
24	[17] 7 50.0	7.1	+19 27	4	0.285
Febr. 1	7 42.9	6.1	+19 31	3	0.291
9	7 36.8	4.8	+19 34	0	0.300
17	7 32.0		+19 34		0.313

(348) May 12.6 1910 (1911)

1914	α		δ		log Δ
Jan. 8	8 7.2	7.3	+26 30	47	0.258
16	[18] 7 59.9	7.4	+27 17	43	0.256
24	7 52.5	7.0	+28 0	35	0.258
Febr. 1	7 45.5	6.1	+28 35	27	0.265
9	7 39.4	4.6	+29 2	18	0.276
17	7 34.8		+29 20		0.290

(33) Polyhymnia 12.6 1911

1914	α		δ		log Δ
Jan. 8	8 8.5	7.6	+22 50	23	0.365
16	8 0.9	7.7	+23 13	19	0.367
24	[18] 7 53.2	7.3	+23 32	15	0.372
Febr. 1	7 45.9	6.4	+23 47	11	0.380
9	7 39.5	5.0	+23 58	6	0.392
17	7 34.5		+24 4		0.406

(549) Jessonda 11.9 1910

1914	α		δ		log Δ
Jan. 8	8 10.2	7.7	+19 49	1	0.031
16	8 2.5	7.8	+19 48	1	0.031
24	[18] 7 54.7	7.0	+19 47	2	0.037
Febr. 1	7 47.7	5.5	+19 45	4	0.049
9	7 42.2	3.4	+19 41	7	0.066
17	7 38.8		+19 34		0.088

(123) Brunhild 11.3 1912

1914	α		δ		log Δ
Jan. 8	8 11.5	8.2	+22 32	2	0.170
16	8 3.3	8.4	+22 34	1	0.168
24	[18] 7 54.9	7.8	+22 33	4	0.171
Febr. 1	7 47.1	6.5	+22 29	8	0.179
9	7 40.6	4.8	+22 21	13	0.192
17	7 35.8		+22 8		0.209

(320) Katharina 14.0 1912

1914	α		δ		log Δ
Jan. 8	8ʰ 12.8ᵐ	6.6	+ 6° 33′	10	0.340
16	8 6.2	6.8	+ 6 43	18	0.337
24	[19] 7 59.4	6.5	+ 7 1	24	0.338
Febr. 1	7 52.9	5.7	+ 7 25	27	0.343
9	7 47.2	4.6	+ 7 52	29	0.351
17	7 42.6		+ 8 21		0.361

(530) Turandot 13.3 1911

1914	α		δ		log Δ
Jan. 8	8 17.2	6.0	+17 27	31	0.443
16	8 11.2	6.3	+17 58	31	0.441
24	[20] 8 4.9	6.2	+18 29	30	0.441
Febr. 1	7 58.7	5.6	+18 59	29	0.445
9	7 53.1	4.6	+19 28	26	0.452
17	7 48.5		+19 54		0.461

(603) Timandra 13.1 1906 (1910)

1914	α		δ		log Δ
Jan. 8	8 21.1	8.6	+30 45	7	0.094
16	8 12.5	9.3	+30 52	3	0.088
24	[20] 8 3.2	8.8	+30 49	14	0.087
Febr. 1	7 54.4	7.3	+30 35	27	0.092
9	7 47.1	5.6	+30 8	38	0.103
17	7 41.5		+29 30		0.118

(666) Desdemona 13.4 1908 (1911)

1914	α		δ		log Δ
Jan. 8	8 21.4	7.9	+ 6 56	17	0.183
16	8 13.5	8.0	+ 7 13	26	0.182
24	[20] 8 5.5	7.4	+ 7 39	33	0.187
Febr. 1	7 58.1	6.4	+ 8 12	37	0.196
9	7 51.7	5.0	+ 8 49	37	0.210
17	7 46.7		+ 9 26		0.227

(423) Diotima 11.4 1912

1914	α		δ		log Δ
Jan. 8	8 21.0	7.1	+31 33	44	0.343
16	8 13.9	7.6	+32 17	36	0.339
24	[20] 8 6.3	7.3	+32 53	27	0.340
Febr. 1	7 59.0	6.7	+33 20	17	0.344
9	7 52.3	5.4	+33 37	8	0.352
17	7 46.9		+33 45		0.363

(571) Dulcinea 13.6 1905

1914	α		δ		log Δ
Jan. 8	8 25.3	9.6	+28 5	23	0.110
16	8 15.7	9.8	+28 28	14	0.112
24	[20] 8 5.9	8.9	+28 42	4	0.120
Febr. 1	7 57.0	7.5	+28 46	7	0.134
9	7 49.5	5.6	+28 39	17	0.151
17	7 43.9		+28 22		0.183

(289) Nenetta 12.7 1912

1914	α		δ		log Δ
Jan. 8	8h 24.7m	6.7	+10° 22′	25	0.306
16	8 18.0	7.1	+10 47	31	0.304
24	(21) 8 10.9	6.8	+11 18	35	0.305
Febr 1	8 4.1	6.2	+11 53	35	0.311
9	7 57.9	5.1	+12 28	34	0.321
17	7 52.8		+13 2		0.333

(417) Suevia 12.2 1912

1914	α		δ		log Δ
Jan. 8	8 30.0	6.5	+ 8 26	16	0.215
16	8 23.5	7.2	+ 8 42	25	0.204
24	(22) 8 16.3	7.1	+ 9 7	31	0.199
Febr. 1	8 9.2	6.4	+ 9 38	36	0.198
9	8 2.8	5.4	+10 14	39	0.202
17	7 57.4		+10 53		0.211

(618) Elfriede 12.7 1910

1914	α		δ		log Δ
Jan. 8	8 29.5	6.3	+22 31	55	0.374
16	8 23.2	6.7	+23 26	54	0.370
24	(22) 8 16.5	6.6	+24 20	51	0.370
Febr. 1	8 9.9	6.1	+25 11	44	0.373
9	8 3.8	5.2	+25 55	36	0.380
17	7 58.6		+26 31		0.389

(651) Antikleia 13.6 1912

1914	α		δ		log Δ
Jan. 8	8 34.9	7.7	+34 40	38	0.313
16	8 27.2	7.9	+35 18	26	0.311
24	(23) 8 19.3	7.9	+35 44	16	0.312
Febr. 1	8 11.4	7.1	+36 0	5	0.318
9	8 4.3	5.7	+36 5	—7	0.327
17	7 58.6		+35 58		0.339

(550) Senta 13.0 1912

1914	α		δ		log Δ
Jan. 8	8 36.1	7.4	+10 52	5	0.344
16	8 28.7	7.8	+10 57	9	0.338
24	(23) 8 20.9	7.8	+11 6	13	0.336
Febr. 1	8 13.1	7.3	+11 19	14	0.339
9	8 5.8	5.6	+11 33	13	0.345
17	8 0.2		+11 46		0.354

(655) Briseïs 12.4 1909

1914	α		δ		log Δ
Jan. 16	8 36.9	6.8	+17 18	41	0.285
24	8 30.1	6.8	+17 59	41	0.283
Febr. 1	(25) 8 23.3	6.4	+18 40	38	0.286
9	8 16.9	5.5	+19 18	34	0.293
17	8 11.4	4.0	+19 52	28	0.304
25	8 7.4		+20 20		0.318

(374) Burgundia 11.8 1911

1914	α		δ		log Δ
Jan. 16	8h 41.3m	6.9	+ 4° 24′	17	0.283
24	8 34.4	6.9	+ 4 41	25	0.277
Febr. 1	(26) 8 27.5	6.8	+ 5 6	31	0.275
9	8 20.7	6.1	+ 5 37	35	0.277
17	8 14.6	4.3	+ 6 12	38	0.283
25	8 10.3		+ 6 50		0.293

(56) Melete 12.3 1912

1914	α		δ		log Δ
Jan. 16	8 43.5	7.0	+ 7 8	27	0.350
24	8 36.5	7.1	+ 7 35	33	0.344
Febr. 1	(26) 8 29.4	6.9	+ 8 8	37	0.343
9	8 22.5	6.4	+ 8 45	39	0.346
17	8 16.1	5.2	+ 9 24	40	0.352
25	8 10.9		+10 4		0.361

(81) Terpsichore 11.3 1912

1914	α		δ		log Δ
Jan. 16	8 45.9	8.4	+29 31	18	0.205
24	8 37.5	8.5	+29 49	8	0.207
Febr. 1	(26) 8 29.0	7.8	+29 57	—3	0.214
9	8 21.2	6.5	+29 54	12	0.225
17	8 14.7	4.8	+29 42	20	0.240
25	8 9.9		+29 22		0.258

(483) Seppina 12.8 1909

1914	α		δ		log Δ
Jan. 16	8 41.3	5.3	— 1 8	32	0.431
24	8 36.0	5.6	— 0 36	41	0.426
Febr. 1	(26) 8 30.4	5.4	+ 0 5	48	0.425
9	8 25.0	4.9	+ 0 53	52	0.427
17	8 20.1	4.2	+ 1 45	56	0.432
25	8 15.9		+ 2 41		0.440

(507) Laodica 12.5 1911

1914	α		δ		log Δ
Jan. 16	8 44.9	6.9	+15 33	5	0.340
24	8 38.0	7.2	+15 38	7	0.338
Febr. 1	(27) 8 30.8	6.7	+15 45	6	0.340
9	8 24.1	5.8	+15 51	5	0.346
17	8 18.3	4.7	+15 56	3	0.354
25	8 13.6		+15 59		0.367

(61) Danaë 11.6 1912

1914	α		δ		log Δ
Jan. 16	8 49.8	8.1	+32 0	3	0.373
24	8 41.7	8.5	+32 3	—4	0.372
Febr. 1	(27) 8 33.2	8.1	+31 59	12	0.376
9	8 25.1	7.2	+31 47	20	0.382
17	8 17.9	5.9	+31 27	29	0.391
25	8 12.0		+30 58		0.403

(371) Bohemia 12.0 1912

1914	α		δ		log Δ
Jan. 16	9h 2.0m	7.1	+12° 14′	8	0.277
24	8 54.9	7.6	+12 22	12	0.270
Febr. 1	[30]8 47.3	7.6	+12 34	14	0.267
9	8 39.7	7.0	+12 48	15	0.269
17	8 32.7	5.8	+13 3	13	0.275
25	8 26.9		+13 16		0.285

(653) Berenike 12.5 1912

1914	α		δ		log Δ
Jan. 16	9 1.8	6.0	+15 3	53	0.296
24	8 55.8	6.5	+15 56	56	0.288
Febr. 1	[30]8 49.3	6.4	+16 52	55	0.286
9	8 42.9	6.0	+17 47	51	0.288
17	8 36.9	4.9	+18 38	46	0.294
25	8 32.0		+19 24		0.304

(609) Fulvia 13.1 1912

1914	α		δ		log Δ
Jan. 16	9 1.7	6.1	+13 8	30	0.343
24	8 55.6	6.4	+13 38	32	0.338
Febr. 1	[30]8 49.2	6.3	+14 10	35	0.335
9	8 42.9	5.8	+14 45	33	0.337
17	8 37.1	4.6	+15 18	29	0.343
25	8 32.5		+15 47		0.351

(148) Gallia 10.9 1912

1914	α		δ		log Δ
Jan. 16	9 3.9	6.5	+ 4 57	90	0.247
24	8 57.4	6.9	+ 6 27	98	0.242
Febr. 1	[30]8 50.5	6.8	+ 8 5	102	0.242
9	8 43.7	6.2	+ 9 47	101	0.248
17	8 37.5	5.1	+11 28	96	0.257
25	8 32.4		+13 4		0.271

(711) Marmula 14.0 1912

1914	α		δ		log Δ
Jan. 16	9 13.5	8.3	+23 45	30	0.232
24	9 5.2	9.3	+24 15	28	0.225
Febr. 1	[31]8 55.9	9.4	+24 43	21	0.222
9	8 46.5	8.8	+25 4	12	0.224
17	8 37.7	7.5	+25 16	3	0.231
25	8 30.2		+25 19		0.243

(734) [1912 *PH*] 13.0 1912

1914	α		δ		log Δ
Jan. 16	9 10.6	6.7	+23 49	25	0.297
24	9 3.9	7.2	+24 14	22	0.293
Febr. 1	[1]8 56.7	7.1	+24 36	15	0.294
9	8 49.6	6.5	+24 51	8	0.298
17	8 43.1	5.6	+24 59	0	0.306
25	8 37.5		+24 59		0.318

(676) Melitta 13.1 1911

1914	α		δ		log Δ
Jan. 16	9h 9.3m	5.6	+ 9° 56′	42	0.394
24	9 3.7	6.0	+10 38	46	0.388
Febr. 1	[1]8 57.7	6.2	+11 24	48	0.386
9	8 51.5	5.8	+12 12	50	0.388
17	8 45.7	5.0	+13 2	45	0.392
25	8 40.7		+13 47		0.401

(282) Clorinde 13.0 1908

1914	α		δ		log Δ
Jan. 24	9 9.8	7.5	+12 16	73	0.093
Febr. 1	9 2.3	7.5	+13 29	74	0.090
9	[2]8 54.8	7.0	+14 43	74	0.094
17	8 47.8	5.7	+15 57	65	0.103
25	8 42.1	3.7	+17 2	55	0.118
März 5	8 38.4		+17 57		0.137

(716) Berkeley 13.2 1912

1914	α		δ		log Δ
Jan. 24	9 9.3	6.2	+12 41	52	0.234
Febr. 1	9 3.1	6.8	+13 33	56	0.228
9	[2]8 56.3	6.5	+14 29	55	0.227
17	8 49.8	5.5	+15 24	51	0.231
25	8 44.3	4.2	+16 15	44	0.240
März 5	8 40.1		+16 59		0.252

(408) Fama 13.4 1912

1914	α		δ		log Δ
Jan. 24	9 15.5	6.7	+12 38	10	0.337
Febr. 1	9 8.8	6.9	+12 48	12	0.336
9	[3]9 1.9	6.6	+13 0	12	0.338
17	8 55.3	5.7	+13 12	10	0.344
25	8 49.6	4.7	+13 22	8	0.354
März 5	8 44.9		+13 30		0.367

(141) Lumen 11.8 1912

1914	α		δ		log Δ
Jan. 24	9 25.0	8.3	+17 15	9	0.274
Febr. 1	9 16.7	8.5	+17 24	7	0.273
9	[4]9 8.2	8.0	+17 31	4	0.277
17	9 0.2	7.1	+17 35	—	0.285
25	8 53.1	5.7	+17 35	5	0.297
März 5	8 47.4		+17 30		0.312

(185) Eunike 10.3 1912

1914	α		δ		log Δ
Jan. 24	9 27.2	6.3	+ 3 30	78	0.287
Febr. 1	9 20.9	6.6	+ 4 48	86	0.282
9	[6]9 14.3	6.4	+ 6 14	90	0.282
17	9 7.9	5.9	+ 7 44	90	0.286
25	9 2.0	4.7	+ 9 14	85	0.294
März 5	8 57.3		+10 39		0.306

(718) Erida 12.3 1911

1914		α		δ		log Δ
Jan. 24		9ʰ 32.6ᵐ	6.9	+25° 57′	39	0.262
Febr. 1		9 25.7	7.4	+26 36	32	0.255
9	6	9 18.3	7.4	+27 8	23	0.251
17		9 10.9	6.8	+27 31	12	0.252
25		9 4.1	5.8	+27 43	2	0.257
März 5		8 58.3		+27 45		0.266

(737) [1912 *QB*] 12.4 1912

1914		α		δ		log Δ
Jan. 24		9 36.3	6.2	+ 1 6	35	0.362
Febr. 1		9 30.1	6.7	+ 1 41	45	0.355
9	7	9 23.4	6.7	+ 2 26	51	0.351
17		9 16.7	6.3	+ 3 17	55	0.352
25		9 10.4	5.5	+ 4 12	57	0.356
März 5		9 4.9		+ 5 9		0.362

(274) Philagoria 13.3 1905

1914		α		δ		log Δ
Jan. 24		9 38.3	6.1	+17 58	41	0.287
Febr. 1		9 32.2	6.7	+18 39	40	0.279
9	8	9 25.5	6.7	+19 19	36	0.276
17		9 18.8	6.2	+19 55	31	0.277
25		9 12.6	5.3	+20 26	23	0.282
März 5		9 7.3		+20 49		0.290

(197) Arete 13.5 1912

1914		α		δ		log Δ
Jan. 24		9 45.1	6.8	+24 16	50	0.348
Febr. 1		9 38.3	7.2	+25 6	45	0.344
9	9	9 31.1	7.4	+25 51	38	0.343
17		9 23.7	6.8	+26 29	30	0.347
25		9 16.9	5.9	+26 59	18	0.354
März 5		9 11.0		+27 17		0.364

(416) Vaticana 11.8 1912

1914		α		δ		log Δ
Febr. 1		9 43.3	7.9	+33 32	46	0.305
9	10	9 35.4	8.3	+34 18	34	0.301
17		9 27.1	7.8	+34 52	20	0.302
25		9 19.3	6.8	+35 12	5	0.306
März 5		9 12.5	5.4	+35 17	−7	0.313
13		9 7.1		+35 10		0.323

(131) Vala 12.1 1912

1914		α		δ		log Δ
Febr. 1		9 47.6	7.8	+21 46	49	0.155
9	11	9 39.8	8.3	+22 35	42	0.150
17		9 31.5	7.7	+23 17	30	0.151
25		9 23.8	6.6	+23 47	19	0.157
März 5		9 17.2	5.0	+24 6	8	0.168
13		9 12.2		+24 14		0.183

(407) Arachne 12.1 1912

1914		α		δ		log Δ
Febr. 1		9ʰ 48.0ᵐ	7.5	+ 7° 47′	17	0.247
9	11	9 40.5	7.7	+ 8 4	20	0.244
17		9 32.8	7.2	+ 8 24	21	0.245
25		9 25.6	6.5	+ 8 45	21	0.250
März 5		9 19.1	5.4	+ 9 6	21	0.260
13		9 13.7		+ 9 27		0.274

(180) Garumna 12.2 1912

1914		α		δ		log Δ
Febr. 1		9 50.3	6.9	+12 57	32	0.114
9	12	9 43.4	7.1	+13 29	31	0.111
17		9 36.3	6.7	+14 0	29	0.113
25		9 29.6	5.7	+14 29	23	0.121
März 5		9 23.9	3.8	+14 52	15	0.133
13		9 20.1		+15 7		0.149

(335) Roberta 12.3 1912

1914		α		δ		log Δ
Febr. 1		9 57.5	7.0	+11 37	51	0.268
9	13	9 50.5	7.6	+12 28	52	0.261
17		9 42.9	7.3	+13 20	51	0.258
25		9 35.6	6.7	+14 11	46	0.260
März 5		9 28.9	5.5	+14 57	39	0.266
13		9 23.4		+15 36		0.276

(202) Chryseïs 10.1 1912

1914		α		δ		log Δ
Febr. 1		10 2.1	5.5	+13 11	59	0.253
9	14	9 56.6	6.1	+14 10	60	0.248
17		9 50.5	6.0	+15 10	56	0.248
25		9 44.5	5.3	+16 6	49	0.252
März 5		9 39.2	4.3	+16 55	43	0.260
13		9 34.9		+17 38		0.272

(174) Phaedra 11.8 1911

1914		α		δ		log Δ
Febr. 1		10 9.4	7.0	+12 58	11	0.292
9	16	10 2.4	7.7	+13 9	10	0.289
17		9 54.7	7.8	+13 19	9	0.288
25		9 46.9	7.3	+13 28	6	0.289
März 8		9 39.6	6.3	+13 34	3	0.293
13		9 33.2		+13 36		0.300

(28) Bellona 9.2 1912

1914		α		δ		log Δ
Febr. 1		10 9.6	5.5	+10 52	72	0.150
9	16	10 4.1	6.2	+12 4	74	0.144
17		9 57.9	6.2	+13 18	72	0.143
25		9 51.7	5.4	+14 30	66	0.148
März 5		9 46.3	4.4	+15 36	55	0.157
13		9 41.9		+16 31		0.171

(754) [1906 *UT*] 12.6 1912

1914	α		δ		log Δ
Febr. 1	10h 10m.9	5.2	−9° 25′	62	0.293
9	10 5.7	5.7	−8 23	77	0.283
17	[16] 10 0.0	5.8	−7 6	90	0.278
25	9 54.2	5.3	−5 36	98	0.277
März 5	9 48.9	4.4	−3 58	101	0.280
13	9 44.5		−2 17		0.287

(560) Delila 12.7 1905

1914	α		δ		log Δ
Febr. 1	10 12.7	6.1	+20 1	68	0.151
9	10 6.6	6.8	+21 9	63	0.148
17	[16] 9 59.8	6.7	+22 12	53	0.150
25	9 53.1	6.0	+23 5	41	0.156
März 5	9 47.1	4.8	+23 46	27	0.168
13	9 42.3		+24 13		0.184

(680) Genoveva 14.0 1909

1914	α		δ		log Δ
Febr. 1	10 18.0	6.9	+36 19	38	0.449
9	10 11.1	7.4	+36 57	30	0.445
17	[17] 10 3.7	7.5	+37 27	19	0.444
25	9 56.2	7.1	+37 46	7	0.445
März 5	9 49.1	6.4	+37 53	−8	0.449
13	9 42.7		+37 45		0.456

(133) Cyrene 11.3 1912

1914	α		δ		log Δ
Febr. 9	10 17.6	6.7	+9 4	19	0.320
17	[19] 10 10.9	6.8	+9 23	21	0.316
25	10 4.1	6.6	+9 44	20	0.314
März 5	9 57.5	6.0	+10 4	18	0.315
13	9 51.5	5.0	+10 22	14	0.321
21	9 46.5		+10 36		0.330

(478) Tergeste 10.6 1912

1914	α		δ		log Δ
Febr. 9	10 22.1	5.8	−10 43	25	0.278
17	[20] 10 16.3	6.2	−10 18	36	0.272
25	10 10.1	6.0	−9 42	47	0.270
März 5	10 4.1	5.2	−8 55	55	0.272
13	9 58.9	4.2	−8 0	60	0.277
21	9 54.7		−7 0		0.287

(90) Antiope 12.3 1911

1914	α		δ		log Δ
Febr. 9	10 27.3	5.8	+12 57	35	0.419
17	[21] 10 21.5	6.0	+13 32	36	0.415
25	10 15.5	6.0	+14 8	31	0.414
März 5	10 9.5	5.4	+14 39	27	0.417
13	10 4.1	4.6	+15 6	22	0.422
21	9 59.5		+15 28		0.432

(317) Roxane 12.6 1912

1914	α		δ		log Δ
Febr. 9	10h 30m.0	7.3	+9° 20′	52	0.180
17	[21] 10 22.7	8.0	+10 12	51	0.174
25	10 14.7	7.6	+11 3	47	0.173
März 5	10 7.1	6.8	+11 50	43	0.178
13	10 0.3	5.4	+12 33	35	0.188
21	9 54.9		+13 8		0.202

(421) Zähringia 14.6 1908

1914	α		δ		log Δ
Febr. 9	10 29.2	6.6	+1 45	53	0.237
17	[21] 10 22.6	7.3	+2 38	60	0.236
25	10 15.3	6.9	+3 38	63	0.240
März 5	10 8.4	6.0	+4 41	61	0.248
13	10 2.4	4.6	+5 42	55	0.261
21	9 57.8		+6 37		0.277

(170) Maria 11.5 1912

1914	α		δ		log Δ
Febr. 9	10 36.9	8.1	−4 49	14	0.186
17	[22] 10 28.8	8.5	−5 3	—	0.178
25	10 20.3	8.2	−5 3	9	0.176
März 5	10 12.1	7.4	−4 54	17	0.178
13	10 4.7	6.2	−4 37	21	0.186
21	9 58.5		−4 16		0.198

(17) Thetis 10.3 1912

1914	α		δ		log Δ
Febr. 9	10 43.4	6.5	+12 21	60	0.203
17	[24] 10 36.9	7.2	+13 21	61	0.193
25	10 29.7	7.4	+14 22	57	0.189
März 5	10 22.3	7.0	+15 19	50	0.189
13	10 15.3	5.6	+16 9	39	0.194
21	10 9.7		+16 48		0.204

(599) Luisa 13.7 1912

1914	α		δ		log Δ
Febr. 9	10 46.6	7.2	+31 45	42	0.424
17	[25] 10 39.4	7.8	+32 27	31	0.423
25	10 31.6	7.5	+32 58	20	0.424
März 5	10 24.1	7.0	+33 18	7	0.429
13	10 17.1	6.2	+33 25	−6	0.436
21	10 10.9		+33 19		0.446

(266) Aline 12.3 1912

1914	α		δ		log Δ
Febr. 9	10 45.1	5.9	−12 3	22	0.341
17	[25] 10 39.2	6.4	−11 41	34	0.334
25	10 32.8	6.4	−11 7	45	0.331
März 5	10 26.4	6.1	−10 22	53	0.331
13	10 20.3	5.1	−9 29	59	0.335
21	10 15.2		−8 30		0.342

(324) Bamberga 11.0 1912

1914	α		δ		log Δ
Febr. 9	10ʰ 47.5ᵐ	7.2	+ 5° 49′	21	0.370
17	[25] 10 40.3	7.4	+ 6 10	25	0.367
25	10 32.9	7.4	+ 6 35	25	0.367
März 5	10 25.5	6.8	+ 7 0	22	0.371
13	10 18.7	6.1	+ 7 22	21	0.379
21	10 12.6		+ 7 43		0.390

(735) [1912 *PY*] 13.8 1912

1914	α		δ		log Δ
Febr. 17	10 43.5	7.8	+32 18	31	0.406
25	[26] 10 35.7	7.8	+32 49	20	0.409
März 5	10 27.9	7.3	+33 9	5	0.415
13	10 20.6	6.4	+33 14	8	0.423
21	10 14.2	5.2	+33 6	18	0.434
29	10 9.0		+32 48		0.447

(529) Preziosa 13.2 1904

1914	α		δ		log Δ
Febr. 17	10 43.5	6.8	+25 30	40	0.329
25	[26] 10 36.7	6.8	+26 10	29	0.328
März 5	10 29.9	6.4	+26 39	17	0.334
13	10 23.5	5.5	+26 56	5	0.343
21	10 18.0	4.2	+27 1	7	0.355
29	10 13.8		+26 54		0.369

(608) Adolfine 14.7 1911

1914	α		δ		log Δ
Febr. 17	10 50.7	6.6	— 2 43	20	0.378
25	[27] 10 44.1	6.6	— 2 23	26	0.374
März 5	10 37.5	6.1	— 1 57	29	0.374
13	10 31.4	5.5	— 1 28	31	0.377
21	10 25.9	4.6	— 0 57	30	0.383
29	10 21.3		— 0 27		0.392

(83) Beatrix 10.9 1912

1914	α		δ		log Δ
Febr. 17	10 54.7	7.6	+14 35	36	0.109
25	[28] 10 47.1	7.9	+15 11	30	0.104
März 5	10 39.2	7.7	+15 41	22	0.104
13	10 31.5	6.6	+16 3	9	0.110
21	10 24.9	5.0	+16 12	1	0.120
29	10 19.9		+16 11		0.135

(656) Beagle 12.9 1911

1914	α		δ		log Δ
Febr. 17	10 54.1	5.7	+ 6 39	36	0.244
25	[28] 10 48.4	6.2	+ 7 15	39	0.240
März 5	10 42.2	5.8	+ 7 54	36	0.241
13	10 36.4	5.1	+ 8 30	32	0.245
21	10 31.3	4.0	+ 9 2	25	0.254
29	10 27.3		+ 9 27		0.267

(73) Klytia 12.1 1911

1914	α		δ		log Δ
Febr. 17	10ʰ 56.5ᵐ	7.0	+ 8° 52′	37	0.228
25	[1] 10 49.5	7.2	+ 9 29	36	0.227
März 5	10 42.3	6.8	+10 5	32	0.228
13	10 35.5	6.0	+10 37	27	0.234
21	10 29.5	4.9	+11 4	18	0.244
29	10 24.6		+11 22		0.257

(112) Iphigenia 12.3 1911

1914	α		δ		log Δ
Febr. 17	10 57.1	7.3	+ 5 40	36	0.251
25	[1] 10 49.8	7.7	+ 6 16	38	0.246
März 5	10 42.1	7.3	+ 6 54	39	0.245
13	10 34.8	6.6	+ 7 33	34	0.249
21	10 28.2	5.4	+ 8 7	27	0.257
29	10 22.8		+ 8 34		0.269

(721) Tabora 14.3 1911

1914	α		δ		log Δ
Febr. 17	10 56.1	5.6	+17 59	31	0.450
25	[1] 10 50.5	5.8	+18 30	26	0.449
März 5	10 44.7	5.6	+18 56	20	0.451
13	10 39.1	5.1	+19 16	14	0.456
21	10 34.0	4.3	+19 30	4	0.463
29	10 29.7		+19 34		0.473

(15) Eunomia 9.2 1910

1914	α		δ		log Δ
Febr. 17	11 2.6	7.2	— 7 59	14	0.301
25	[2] 10 55.4	7.5	— 7 45	23	0.296
März 5	10 47.9	7.2	— 7 22	32	0.296
13	10 40.7	6.7	— 6 50	36	0.299
21	10 34.0	5.9	— 6 14	39	0.307
29	10 28.1		— 5 35		0.318

(49) Pales 11.6 1911

1914	α		δ		log Δ
Febr. 17	11 2.1	6.0	+ 2 31	32	0.389
25	[2] 10 56.1	6.2	+ 3 3	34	0.386
März 5	10 49.9	6.0	+ 3 37	35	0.388
13	10 43.9	5.4	+ 4 12	33	0.392
21	10 38.5	4.7	+ 4 45	29	0.400
29	10 33.8		+ 5 14		0.411

(227) Philosophia 12.1 1912

1914	α		δ		log Δ
Febr. 17	11 5.5	6.4	+ 3 31	7	0.258
25	[3] 10 59.1	7.1	+ 3 38	13	0.248
März 5	10 52.0	7.0	+ 3 51	15	0.242
13	10 45.0	6.5	+ 4 6	14	0.241
21	10 38.5	5.6	+ 4 20	11	0.244
29	10 32.9		+ 4 31		0.252

(24) Themis 10.1 1912

1914	α		δ		log Δ
Febr. 17	11h 5.0m	5.8	+7° 1′	35	0.244
25	10 59.2 (3)	6.2	+7 36	36	0.239
März 5	10 53.0	6.0	+8 12	35	0.238
13	10 47.0	5.5	+8 47	31	0.243
21	10 41.5	4.4	+9 18	23	0.251
29	10 37.1		+9 41		0.263

(466) Tisiphone 11.5 1913

1914	α		δ		log Δ
Febr. 17	11 6.6	6.1	−18 48	16	0.357
25	11 0.5 (3)	6.7	−19 4	— 1	0.349
März 5	10 53.8	6.7	−19 3	14	0.344
13	10 47.1	6.1	−18 49	25	0.342
21	10 41.0	5.5	−18 24	33	0.344
29	10 35.5		−17 51		0.349

(717) [1911 *MJ*] 15.1 1911

1914	α		δ		log Δ
Febr. 17	11 5.7	5.6	+6 4	32	0.462
25	11 0.1 (3)	5.8	+6 36	34	0.459
März 5	10 54.3	5.7	+7 10	32	0.459
13	10 48.6	5.3	+7 42	30	0.462
21	10 43.3	4.7	+8 12	26	0.468
29	10 38.6		+8 38		0.476

(597) Bandusia 13.6 1912

1914	α		δ		log Δ
Febr. 17	11 11.6	7.3	+21 45	38	0.328
25	11 4.3 (4)	7.6	+22 23	30	0.325
März 5	10 56.7	7.5	+22 53	20	0.325
13	10 49.2	7.0	+23 13	9	0.329
21	10 42.2	5.8	+23 22	— 5	0.337
29	10 36.4		+23 17		0.347

(471) Papagena 10.3 1912

1914	α		δ		log Δ
Febr. 17	11 16.8	6.7	+26 58	56	0.334
25	11 10.1 (5)	7.0	+27 54	45	0.335
März 5	11 3.1	7.0	+28 39	31	0.340
13	10 56.1	6.4	+29 10	17	0.348
21	10 49.7	5.4	+29 27	3	0.359
29	10 44.3		+29 30		0.372

(273) Atropos 11.8 1912

1914	α		δ		log Δ
Febr. 17	11 17.3	5.8	+5 42	110	0.195
25	11 11.5 (5)	6.6	+7 32	114	0.183
März 5	11 4.9	6.8	+9 26	114	0.176
13	10 58.1	6.4	+11 20	106	0.175
21	10 51.7	5.4	+13 6	95	0.180
29	10 46.3		+14 41		0.189

(349) Dembowska 10.2 1909

1914	α		δ		log Δ
Febr. 17	11h 18.1m	6.3	+15° 0′	36	0.339
25	11 11.8 (5)	6.7	+15 36	31	0.334
März 5	11 5.1	6.8	+16 7	25	0.334
13	10 58.3	6.4	+16 32	18	0.338
21	10 51.9	5.5	+16 50	7	0.345
29	10 46.4		+16 57		0.355

(497) Iva 14.8 1913

1914	α		δ		log Δ
Febr. 25	11 17.7	6.2	+7 25	35	0.423
März 5	11 11.5 (7)	6.5	+8 0	33	0.420
13	11 5.0	6.3	+8 33	30	0.421
21	10 58.7	5.6	+9 3	24	0.427
29	10 53.1	4.5	+9 27	17	0.436
April 6	10 48.6		+9 44		0.449

(188) Menippe 13.6 1909

1914	α		δ		log Δ
Febr. 25	11 17.9	6.3	−13 2	33	0.336
März 5	11 11.6 (7)	6.5	−12 29	45	0.328
13	11 5.1	6.4	−11 44	52	0.324
21	10 58.7	5.6	−10 52	58	0.323
29	10 53.1	4.8	−9 54	60	0.326
April 6	10 48.3		−8 54		0.333

(284) Amalia 13.4 1911

1914	α		δ		log Δ
Febr. 25	11 20.1	7.3	−8 37	42	0.204
März 5	11 12.8 (7)	7.6	−7 55	54	0.192
13	11 5.2	7.3	−7 1	63	0.185
21	10 57.9	6.7	−5 58	67	0.183
29	10 51.2	5.4	−4 51	65	0.186
April 6	10 45.8		−3 46		0.193

(441) Bathilde 12.4 1912

1914	α		δ		log Δ
Febr. 25	11 25.6	6.3	−9 46	31	0.256
März 5	11 19.3 (9)	6.5	−9 15	41	0.250
13	11 12.8	6.3	−8 34	48	0.249
21	11 6.5	5.5	−7 46	52	0.252
29	11 1.0	4.4	−6 54	52	0.260
April 6	10 56.6		−6 2		0.271

(610) Valeska 16.6 1906

1914	α		δ		log Δ
Febr. 25	11 26.5	6.4	+15 20	27	0.431
März 5	11 20.1 (9)	6.6	+15 47	22	0.430
13	11 13.5	6.3	+16 9	17	0.433
21	11 7.2	5.8	+16 26	9	0.439
29	11 1.4	5.1	+16 35	2	0.447
April 6	10 56.3		+16 37		0.458

(186) Celuta 12.2 1908

1914		α		δ		log Δ
Febr. 25		11h 30.0m	8.6	+15° 10'	26	0.240
März 5	9	11 21.4	8.8	+15 36	20	0.235
13		11 12.6	8.5	+15 56	10	0.236
21		11 4.1	7.6	+16 6	−2	0.241
29		10 56.5	6.4	+16 4	12	0.250
April 6		10 50.1		+15 52		0.262

(719) Albert 19.7 1911

1914		α		δ		log Δ
Febr. 25		11 38.1	6.0	− 1 39	48	0.465
März 5	12	11 32.1	6.5	− 0 51	51	0.458
13		11 25.6	6.5	0 0	53	0.454
21		11 19.1	6.0	+ 0 53	52	0.453
29		11 13.1	5.2	+ 1 45	50	0.455
April 6		11 7.9		+ 2 35		0.473

(504) Cora 13.7 1913

1914		α		δ		log Δ
Febr. 25		11 43.0	6.2	+19 9	56	0.371
März 5	13	11 36.8	6.4	+20 5	51	0.370
13		11 30.4	6.6	+20 56	42	0.371
21		11 23.8	6.2	+21 38	30	0.375
29		11 17.6	5.4	+22 8	17	0.382
April 6		11 12.2		+22 25		0.393

(267) Tirza 14.0 1909

1914		α		δ		log Δ
Febr. 25		11 44.1	6.2	+11 44	47	0.265
März 5	13	11 37.9	6.8	+12 31	43	0.258
13		11 31.1	6.7	+13 14	38	0.256
21		11 24.4	6.3	+13 52	27	0.257
29		11 18.1	5.4	+14 19	16	0.263
April 6		11 12.7		+14 35		0.272

(572) Rebekka 13.6 1905

1914		α		δ		log Δ
Febr. 25		11 46.5	7.0	− 5 16	65	0.222
März 5	13	11 39.5	7.1	− 4 11	72	0.206
13		11 32.4	7.0	− 2 59	75	0.204
21		11 25.4	6.5	− 1 44	75	0.207
29		11 18.9	5.4	− 0 29	69	0.216
April 6		11 13.5		+ 0 40		0.228

(702) [1910 *KQ*] 12.2 1913

1914		α		δ		log Δ
März 5		11 42.1	6.7	−27 36	2	0.374
13	14	11 35.4	6.8	−27 34	17	0.368
21		11 28.6	6.5	−27 17	30	0.365
29		11 22.1	5.8	−26 47	40	0.365
April 6		11 16.3	4.9	−26 7	50	0.368
14		11 11.4		−25 17		0.374

(102) Miriam 13.9 1913

1914		α		δ		log Δ
März 5		11h 43.9m	6.4	− 3° 5'	46	0.373
13	14	11 37.5	6.3	− 2 19	49	0.370
21		11 31.2	6.1	− 1 30	49	0.370
29		11 25.1	5.5	− 0 41	47	0.374
April 6		11 19.6	4.5	+ 0 6	42	0.381
14		11 15.1		+ 0 48		0.391

(584) Semiramis 12.7 1913

1914		α		δ		log Δ
März 5		11 47.3	7.4	−15 24	30	0.298
13	15	11 39.9	7.4	−14 54	39	0.293
21		11 32.5	7.3	−14 15	48	0.291
29		11 25.2	6.7	−13 27	53	0.293
April 6		11 18.5	5.3	−12 34	54	0.301
14		11 13.2		−11 40		0.310

(13) Egeria* 9.4 1912

1914		α		δ		log Δ
Febr. 25		11 58.2	8.1	+26 27	30	0.167
März 5		11 50.1	8.8	+26 57	14	0.164
13	15	11 41.3	8.8	+27 11	−5	0.166
21		11 32.5	8.1	+27 6	25	0.173
29		11 24.4	6.6	+26 41	44	0.183
April 6		11 17.8		+25 57		0.196

(577) Rhea 13.2 1912

1914		α		δ		log Δ
März 5		11 48.5	6.0	− 1 57	28	0.363
13	15	11 42.5	6.4	− 1 29	30	0.357
21		11 36.1	6.0	− 0 59	31	0.355
29		11 30.1	5.5	− 0 28	29	0.357
April 6		11 24.6	4.5	+ 0 1	25	0.362
14		11 20.1		+ 0 26		0.369

(187) Lamberta 10.1 1912

1914		α		δ		log Δ
März 5		11 51.4	7.8	+12 29	10	0.093
13	15	11 43.6	8.2	+12 39	2	0.085
21		11 35.4	7.7	+12 41	−10	0.083
29		11 27.7	6.7	+12 31	24	0.086
April 6		11 21.0	5.1	+12 7	37	0.094
14		11 15.9		+11 30		0.107

(150) Nuwa 12.2 1911

1914		α		δ		log Δ
März 5		11 58.6	5.7	− 1 35	39	0.380
13	18	11 52.9	6.0	− 0 56	42	0.376
21		11 46.9	5.8	− 0 14	42	0.375
29		11 41.1	5.3	+ 0 28	40	0.377
April 6		11 35.8	4.5	+ 1 8	34	0.383
14		11 31.3		+ 1 42		0.392

(736) [1912 *PZ*] 13.2 1912

1914	α		δ		log Δ
März 5	12^h 2.2^m	7.3	+ 4° 30′	63	0.195
13	(18) 11 54.9	7.8	+ 5 33	62	0.188
21	11 47.1	7.6	+ 6 35	57	0.187
29	11 39.5	6.8	+ 7 32	47	0.190
April 6	11 32.7	5.6	+ 8 19	36	0.198
14	11 27.1		+ 8 55		0.210

(176) Iduna 12.9 1911

1914	α		δ		log Δ
März 5	12 0.0	5.1	−12 44	56	0.436
13	(18) 11 54.9	5.2	−11 48	64	0.431
21	11 49.7	5.2	−10 44	69	0.429
29	11 44.5	4.8	− 9 35	71	0.431
April 6	11 39.7	4.1	− 8 24	69	0.435
14	11 35.6		− 7 15		0.443

(172) Baucis 10.9 1912/3

1914	α		δ		log Δ
März 5	12 7.0	7.7	− 8 7	12	0.221
13	(19) 11 59.3	8.2	− 7 55	21	0.211
21	11 51.1	8.3	− 7 34	26	0.207
29	11 42.8	7.6	− 7 8	29	0.207
April 6	11 35.2	6.5	− 6 39	28	0.212
14	11 28.7		− 6 11		0.221

(457) Alleghenia 15.9 1900

1914	α		δ		log Δ
März 5	12 4.0	5.5	−18 6	28	0.432
13	(19) 11 58.5	5.8	−17 38	37	0.426
21	11 52.7	5.7	−17 1	45	0.424
29	11 47.0	5.3	−16 16	51	0.424
April 6	11 41.7	4.6	−15 25	54	0.427
14	11 37.1		−14 31		0.433

(6) Hebe 9.5 1912

1914	α		δ		log Δ
März 5	12 6.7	6.6	+12 57	78	0.277
13	(19) 12 0.1	6.8	+14 15	73	0.276
21	11 53.3	6.8	+15 28	62	0.278
29	11 46.5	6.2	+16 30	47	0.285
April 6	11 40.3	4.9	+17 17	32	0.296
14	11 35.4		+17 49		0.309

(47) Aglaja 11.6 1911

1914	α		δ		log Δ
März 5	12 6.8	6.2	+ 0 20	30	0.339
13	(19) 12 0.6	6.6	+ 0 50	31	0.332
21	11 54.0	6.5	+ 1 21	31	0.330
29	11 47.5	6.1	+ 1 52	29	0.330
April 6	11 41.4	5.3	+ 2 21	22	0.335
14	11 36.1		+ 2 43		0.343

(701) [1910 *KN*] 13.0 1913

1914	α		δ		log Δ
März 13	12^h 11.3^m	5.9	−11° 31′	42	0.291
21	(22) 12 5.4	6.0	−10 49	47	0.286
29	11 59.4	5.6	−10 2	51	0.286
April 6	11 53.8	4.9	− 9 11	52	0.289
14	11 48.9	3.8	− 8 19	50	0.296
22	11 45.1		− 7 29		0.306

(8) Flora 9.6 1912

1914	α		δ		log Δ
März 13	12 12.7	7.9	+ 8 28	62	0.167
21	(22) 12 4.8	7.8	+ 9 30	52	0.168
29	11 57.0	7.1	+10 22	39	0.174
April 6	11 49.9	6.0	+11 1	26	0.185
14	11 43.9	4.5	+11 27	11	0.200
22	11 39.4		+11 38		0.218

(576) Emanuela 13.5 1905

1914	α		δ		log Δ
März 13	12 21.3	6.1	−16 18	21	0.402
21	(24) 12 15.2	6.3	−15 57	29	0.396
29	12 8.9	6.2	−15 28	35	0.392
April 6	12 2.7	5.8	−14 53	40	0.392
14	11 56.9	4.9	−14 13	40	0.395
22	11 52.0		−13 33		0.401

(600) Musa 12.9 1911

1914	α		δ		log Δ
März 13	12 28.0	6.0	+ 8 19	72	0.214
21	(26) 12 22.0	6.3	+ 9 31	66	0.210
29	12 15.7	6.0	+10 37	55	0.210
April 6	12 9.7	5.4	+11 32	41	0.216
14	12 4.3	4.3	+12 13	28	0.224
22	12 0.0		+12 41		0.237

(241) Germania* 11.7 1913

1914	α		δ		log Δ
März 13	12 28.2	5.7	−11 25	31	0.378
21	(26) 12 22.5	6.0	−10 54	37	0.372
29	12 16.5	5.9	−10 17	41	0.370
April 6	12 10.6	5.4	− 9 36	42	0.371
14	12 5.2	4.3	− 8 54	41	0.375
22	12 0.9		− 8 13		0.382

(391) Ingeborg 14.7 1908

1914	α		δ		log Δ
März 13	12 32.7	6.6	−19 30	68	0.323
21	(26) 12 26.1	7.2	−18 22	80	0.314
29	12 18.9	6.9	−17 2	89	0.308
April 6	12 12.0	6.4	−15 33	95	0.308
14	12 5.6	5.5	−13 58	95	0.310
22	12 0.1		−12 23		0.317

(386) Siegena 11.3 1913

1914	α (h m)		δ (° ′)		log Δ
März 13	12 32.4	5.3	+ 4 39	76	0.373
21	27 12 27.1	5.6	+ 5 55	73	0.370
29	12 21.5	5.6	+ 7 8	67	0.372
April 6	12 15.9	5.0	+ 8 15	58	0.377
14	12 10.9	4.4	+ 9 13	48	0.384
22	12 6.5		+10 1		0.395

(360) Carlova 12.3 1912

1914	α		δ		log Δ
März 13	12 33.1	5.7	+ 9 50	58	0.348
21	27 12 27.4	5.9	+10 48	52	0.348
29	12 21.5	5.7	+11 40	43	0.352
April 6	12 15.8	5.1	+12 23	32	0.358
14	12 10.7	4.3	+12 55	20	0.368
22	12 6.4		+13 15		0.381

(341) California 13.7 1911

1914	α		δ		log Δ
März 13	12 38.7	8.0	+ 0 25	38	0.177
21	27 12 30.7	8.5	+ 1 3	38	0.168
29	12 22.2	8.5	+ 1 41	35	0.162
April 6	12 13.7	8.0	+ 2 16	28	0.162
14	12 5.7	6.7	+ 2 44	19	0.168
22	11 59.0		+ 3 3		0.177

(533) Sara 13.3 1913

1914	α		δ		log Δ
März 13	12 35.0	5.3	− 3 19	53	0.281
21	27 12 29.7	5.7	− 2 26	56	0.275
29	12 24.0	5.7	− 1 30	55	0.273
April 6	12 18.3	5.2	− 0 35	50	0.276
14	12 13.1	4.2	+ 0 15	44	0.282
22	12 8.9		+ 0 59		0.292

(328) Gudrun 12.3 1911

1914	α		δ		log Δ
März 13	12 37.6	6.9	− 9 51	1	0.324
21	27 12 30.7	7.4	− 9 50	8	0.320
29	12 23.3	7.2	− 9 42	11	0.319
April 6	12 16.1	6.6	− 9 31	12	0.322
14	12 9.5	5.7	− 9 19	13	0.330
22	12 3.8		− 9 6		0.340

(9) Metis 9.1 1912

1914	α		δ		log Δ
März 13	12 39.5	7.4	+ 5 6	45	0.169
21	28 12 32.1	7.8	+ 5 51	41	0.167
29	12 24.3	7.5	+ 6 32	33	0.169
April 6	12 16.8	6.7	+ 7 5	21	0.177
14	12 10.1	5.3	+ 7 26	9	0.189
22	12 4.8		+ 7 35		0.205

(205) Martha 12.8 1911

1914	α (h m)		δ (° ′)		log Δ
März 13	12 36.6	5.6	−11 47	55	0.282
21	28 12 31.0	6.0	−10 52	62	0.276
29	12 25.0	6.0	− 9 50	66	0.273
April 6	12 19.0	5.4	− 8 44	67	0.274
14	12 13.6	4.6	− 7 37	65	0.279
22	12 9.0		− 6 32		0.288

(605) Juvisia 13.6 1906

1914	α		δ		log Δ
März 13	12 40.2	6.9	−17 40	3	0.395
21	28 12 33.3	7.2	−17 43	6	0.388
29	12 26.1	7.3	−17 37	14	0.384
April 6	12 18.8	6.9	−17 23	19	0.383
14	12 11.9	6.2	−17 4	23	0.386
22	12 5.7		−16 41		0.392

(506) Marion 12.5 1911

1914	α		δ		log Δ
März 13	12 41.4	6.7	−26 50	6	0.330
21	28 12 34.7	7.4	−26 56	10	0.324
29	12 27.3	7.3	−26 46	23	0.321
April 6	12 20.0	6.7	−26 23	33	0.322
14	12 13.3	5.6	−25 50	41	0.326
22	12 7.7		−25 9		0.334

(521) Brixia 13.0 1912

1914	α		δ		log Δ
März 13	12 41.1	6.4	+11 58	48	0.349
21	28 12 34.7	6.9	+12 46	40	0.349
29	12 27.8	6.6	+13 26	31	0.353
April 6	12 21.2	6.0	+13 57	19	0.360
14	12 15.2	5.1	+14 16	6	0.370
22	12 10.1		+14 22		0.383

(91) Aegina 10.9 1912

1914	α		δ		log Δ
März 13	12 45.7	6.6	− 4 30	35	0.220
21	29 12 39.1	7.2	− 3 55	38	0.215
29	12 31.9	7.0	− 3 17	38	0.214
April 6	12 24.9	6.5	− 2 39	35	0.218
14	12 18.4	5.5	− 2 4	29	0.227
22	12 12.9		− 1 35		0.239

(649) Josefa 16.2 1911

1914	α		δ		log Δ
März 21	12 43.3	7.5	− 8 58	20	0.337
29	30 12 35.8	7.9	− 8 38	24	0.331
April 6	12 27.9	7.5	− 8 14	26	0.329
14	12 20.4	6.8	− 7 48	24	0.330
22	12 13.6	5.5	− 7 24	20	0.336
30	12 8.1		− 7 4		0.344

(78) Diana* 10.0 1912

1914	α		δ		log Δ
März 21	12^{h} $45^{m}.0$	7.9	−14° 18′	12	0.129
29	12 37.1	8.0	−14 6	22	0.128
April 6	[30] 12 29.1	7.2	−13 44	27	0.133
14	12 21.9	6.1	−13 17	29	0.142
22	12 15.8	4.4	−12 48	27	0.157
30	12 11.4		−12 21		0.173

(228) Agathe 15.3 1908

1914	α		δ		log Δ
März 21	12 48.2	8.0	− 8 54	43	0.196
29	12 40.2	8.4	− 8 11	48	0.187
April 6	[31] 12 31.8	8.0	− 7 23	49	0.182
14	12 23.8	7.0	− 6 34	46	0.183
22	12 16.8	5.3	− 5 48	35	0.188
30	12 11.5		− 5 13		0.197

(221) Eos 11.7 1913

1914	α		δ		log Δ
März 21	12 46.7	5.6	+ 6 36	56	0.355
29	12 41.1	5.7	+ 7 32	50	0.353
April 6	[31] 12 35.4	5.5	+ 8 22	42	0.354
14	12 29.9	4.8	+ 9 4	33	0.359
22	12 25.1	3.9	+ 9 37	21	0.367
30	12 21.2		+ 9 58		0.377

(178) Belisana 11.9 1912

1914	α		δ		log Δ
März 21	12 50.2	7.1	− 3 0	41	0.160
29	12 43.1	7.4	− 2 19	41	0.155
April 6	[1] 12 35.7	6.9	− 1 38	37	0.154
14	12 28.8	6.1	− 1 1	30	0.159
22	12 22.7	4.6	− 0 31	20	0.168
30	12 18.1		− 0 11		0.181

(40) Harmonia 9.5 1912

1914	α		δ		log Δ
März 21	13 0.9	7.4	+ 0 56	51	0.144
29	12 53.5	7.8	+ 1 47	48	0.139
April 6	[3] 12 45.7	7.5	+ 2 35	40	0.139
14	12 38.2	6.7	+ 3 15	29	0.144
22	12 31.5	5.2	+ 3 44	16	0.154
30	12 26.3		+ 4 0		0.168

(166) Rhodope 13.5 1913

1914	α		δ		log Δ
März 21	13 4.5	6.2	+ 9 10	57	0.349
29	12 58.3	6.4	+10 7	50	0.346
April 6	[4] 12 51.9	6.2	+10 57	40	0.348
14	12 45.7	5.7	+11 37	29	0.354
22	12 40.0	5.0	+12 6	17	0.363
30	12 35.0		+12 23		0.375

(230) Athamantis 10.7 1912

1914	α		δ		log Δ
März 21	13^{h} $10^{m}.5$	6.4	−19° 5′	47	0.202
29	13 4.1	7.2	−18 18	60	0.193
April 6	[5] 12 56.9	7.1	−17 18	69	0.188
14	12 49.8	6.4	−16 9	73	0.187
22	12 43.4	5.4	−14 56	73	0.192
30	12 38.0		−13 43		0.201

(118) Peitho 11.1 1912

1914	α		δ		log Δ
März 21	13 12.8	7.3	+ 0 40	27	0.190
29	13 5.5	8.0	+ 1 7	27	0.189
April 6	[5] 12 57.5	7.8	+ 1 34	21	0.191
14	12 49.7	7.0	+ 1 55	14	0.199
22	12 42.7	5.8	+ 2 9	3	0.210
30	12 36.9		+ 2 12		0.226

(681) Gorgo 14.3 1909

1914	α		δ		log Δ
März 21	13 8.7	5.0	− 2 55	63	0.338
29	13 3.7	5.5	− 1 52	64	0.332
April 6	[6] 12 58.2	5.4	− 0 48	61	0.329
14	12 52.8	5.1	+ 0 13	55	0.330
22	12 47.7	4.3	+ 1 8	47	0.335
30	12 43.4		+ 1 55		0.343

(508) Princetonia 12.2 1912

1914	α		δ		log Δ
März 21	13 13.8	6.2	+ 4 18	20	0.333
29	13 7.6	6.6	+ 4 38	16	0.328
April 6	[6] 13 1.0	6.6	+ 4 54	10	0.326
14	12 54.4	6.2	+ 5 4	3	0.329
22	12 48.2	5.3	+ 5 7	6	0.335
30	12 42.9		+ 5 1		0.348

(214) Aschera 12.1 1912

1914	α		δ		log Δ
März 21	13 14.8	6.5	−10 57	27	0.215
29	13 8.3	7.1	−10 30	32	0.208
April 6	[6] 13 1.2	7.3	− 9 58	34	0.205
14	12 53.9	6.5	− 9 24	35	0.207
22	12 47.4	5.5	− 8 49	32	0.213
30	12 41.9		− 8 17		0.224

(537) Pauly 13.3 1909

1914	α		δ		log Δ
März 21	13 13.0	5.5	+ 6 23	52	0.351
29	13 7.5	6.0	+ 7 15	48	0.344
April 6	[6] 13 1.5	6.0	+ 8 3	40	0.340
14	12 55.5	5.7	+ 8 43	30	0.340
22	12 49.8	5.1	+ 9 13	21	0.344
30	12 44.7		+ 9 34		0.351

(445) Edna 13.6 1905

1914	α		δ		log Δ
März 29	13h 11.4m	6.7	−38° 4′	13	0.472
April 6	$_{7}$13 4.7	6.8	−37 51	27	0.466
14	12 57.9	6.5	−37 24	38	0.462
22	12 51.4	5.9	−36 46	48	0.461
30	12 45.5	5.0	−35 58	56	0.462
Mai 8	12 40.5		−35 2		0.466

(60) Echo 11.0 1912

1914	α		δ		log Δ
März 29	13 14.0	7.3	− 7 29	59	0.135
April 6	$_{7}$13 6.7	7.2	− 6 30	59	0.136
14	12 59.5	6.5	− 5 31	54	0.142
22	12 53.0	5.4	− 4 37	46	0.153
30	12 47.6	3.9	− 3 51	34	0.169
Mai 8	12 43.7		− 3 17		0.188

(89) Julia 10.9 1913

1914	α		δ		log Δ
März 29	13 14.9	8.1	−32 15	7	0.308
April 6	$_{7}$13 6.8	8.5	−32 8	24	0.300
14	12 58.3	8.1	−31 44	38	0.295
22	12 50.2	7.3	−31 6	49	0.294
30	12 42.9	6.1	−30 17	56	0.297
Mai 8	12 36.8		−29 21		0.303

(720) [1911 *MW*] 12.8 1913

1914	α		δ		log Δ
März 29	13 13.4	6.5	− 6 22	34	0.258
April 6	$_{7}$13 6.9	6.5	− 5 48	33	0.255
14	13 0.4	6.2	− 5 15	31	0.256
22	12 54.2	5.4	− 4 44	26	0.261
30	12 48.8	4.2	− 4 18	18	0.270
Mai 8	12 44.6		− 4 0		0.282

(738) [1913 *QO*] 13.2 1913

1914	α		δ		log Δ
März 29	13 19.6	5.8	− 3 16	43	0.279
April 6	$_{9}$13 13.8	6.0	− 2 33	40	0.276
14	13 7.8	5.7	− 1 53	36	0.278
22	13 2.1	5.0	− 1 17	29	0.283
30	12 57.1	4.1	− 0 48	20	0.292
Mai 8	12 53.0		− 0 28		0.304

(678) Fredegundis 13.7 1913

1914	α		δ		log Δ
März 29	13 22.4	7.0	−18 4	36	0.328
April 6	$_{9}$13 15.4	7.0	−17 28	42	0.324
14	13 8.4	6.8	−16 46	47	0.323
22	13 1.6	6.2	−15 59	48	0.326
30	12 55.4	5.2	−15 11	48	0.334
Mai 8	12 50.2		−14 23		0.344

(20) Massalia 9.2 1912

1914	α		δ		log Δ
März 29	13h 30.0m	7.2	− 9° 37′	45	0.154
April 6	$_{11}$13 22.8	7.5	− 8 52	48	0.152
14	13 15.3	7.1	− 8 4	46	0.154
22	13 8.2	6.3	− 7 18	41	0.162
30	13 1.9	4.8	− 6 37	31	0.174
Mai 8	12 57.1		− 6 6		0.190

(559) Nanon 12.1 1913

1914	α		δ		log Δ
März 29	13 32.3	6.2	+ 6 22	50	0.206
April 6	$_{12}$13 26.1	6.6	+ 7 12	41	0.202
14	13 19.5	6.4	+ 7 53	30	0.203
22	13 13.1	5.7	+ 8 23	15	0.207
30	13 7.4	4.7	+ 8 38	0	0.216
Mai 8	13 2.7		+ 8 38		0.229

(157) Dejanira 13.4 1908

1914	α		δ		log Δ
März 29	13 35.1	7.8	+ 6 5	20	0.170
April 6	$_{12}$13 27.3	8.1	+ 6 25	11	0.171
14	13 19.2	7.7	+ 6 36	$\overline{1}$	0.177
22	13 11.5	6.8	+ 6 35	13	0.187
30	13 4.7	5.4	+ 6 22	25	0.202
Mai 8	12 59.3		+ 5 57		0.219

(413) Edburga 13.7 1896

1914	α		δ		log Δ
März 29	13 36.2	6.7	+18 31	49	0.387
April 6	$_{12}$13 29.5	7.0	+19 20	37	0.384
14	13 22.5	6.9	+19 57	23	0.385
22	13 15.6	6.5	+20 20	9	0.389
30	13 9.1	5.5	+20 29	$\overline{7}$	0.395
Mai 8	13 3.6		+20 22		0.403

(292) Ludovica 12.6 1912

1914	α		δ		log Δ
März 29	13 39.5	7.9	+ 1 9	10	0.207
April 6	$_{13}$13 31.6	8.3	+ 1 19	5	0.201
14	13 23.3	8.4	+ 1 24	$\overline{2}$	0.199
22	13 14.9	7.6	+ 1 22	11	0.203
30	13 7.3	6.2	+ 1 11	22	0.211
Mai 8	13 1.1		+ 0 49		0.223

(378) Holmia 13.2 1913

1914	α		δ		log Δ
März 29	13 36.9	5.9	−15 43	42	0.337
April 6	$_{13}$13 31.0	6.3	−15 1	48	0.331
14	13 24.7	6.3	−14 13	52	0.328
22	13 18.4	5.8	−13 21	52	0.330
30	13 12.6	5.0	−12 29	48	0.335
Mai 8	13 7.6		−11 41		0.343

(607) Jenny 12.2 1913

1914	α		δ		log Δ
März 29	13^{h} $40^{m}.8$	6.2	−27° 5′	17	0.233
April 6	$_{14}$13 34.6	6.7	−26 48	31	0.223
14	13 27.9	6.9	−26 17	43	0.217
22	13 21.0	6.3	−25 34	53	0.216
30	13 14.7	5.2	−24 41	58	0.219
Mai 8	13 9.5		−23 43		0.226

(398) Admete 14.4 1912

1914	α		δ		log Δ
März 29	13 45.4	6.8	−25 7	28	0.321
April 6	$_{14}$13 38.6	7.1	−24 39	37	0.316
14	13 31.5	7.1	−24 2	46	0.314
22	13 24.4	6.5	−23 16	52	0.316
30	13 17.9	5.6	−22 24	55	0.322
Mai 8	13 12.3		−21 29		0.332

(487) Venetia 12.3 1913

1914	α		δ		log Δ
April 6	13 39.4	6.6	+ 6 17	43	0.283
14	$_{15}$13 32.8	6.6	+ 7 0	33	0.283
22	13 26.2	6.1	+ 7 33	21	0.287
30	13 20.1	5.3	+ 7 54	9 —	0.295
Mai 8	13 14.8	4.3	+ 8 3	3	0.306
16	13 10.5		+ 8 0		0.319

(115) Thyra 10.6 1912

1914	α		δ		log Δ
April 6	13 44.7	8.6	−29 20	24	0.273
14	$_{15}$13 36.1	8.6	−28 54	36	0.268
22	13 27.5	7.8	−28 18	47	0.267
30	13 19.7	6.9	−27 31	55	0.270
Mai 8	13 12.8	5.5	−26 36	55	0.277
16	13 7.3		−25 41		0.287

(461) Saskia 14.4 1900

1914	α		δ		log Δ
April 6	13 45.6	6.0	− 9 21	36	0.352
14	$_{16}$13 39.6	5.9	− 8 45	36	0.352
22	13 33.7	5.7	− 8 9	34	0.355
30	13 28.0	5.0	− 7 35	30	0.362
Mai 8	13 23.0	4.0	− 7 5	23	0.372
16	13 19.0		− 6 42		0.385

(742) [1913 *QU*] 13.0 1913

1914	α		δ		log Δ
April 6	13 47.5	6.3	+ 0 37	24	0.366
14	$_{16}$13 41.2	6.4	+ 1 1	18	0.363
22	13 34.8	6.2	+ 1 19	14	0.364
30	13 28.6	5.7	+ 1 33	6 —	0.368
Mai 8	13 22.9	4.6	+ 1 39	4	0.375
16	13 18.3		+ 1 35		0.385

(368) Haidea 13.6 1893

1914	α		δ		log Δ
April 6	13^{h} $50^{m}.1$	5.7	−16° 16′	47	0.333
14	$_{17}$13 44.4	6.1	−15 29	50	0.327
22	13 38.3	5.9	−14 39	52	0.324
30	13 32.4	5.3	−13 47	52	0.323
Mai 8	13 27.1	4.6	−12 55	44	0.327
16	13 22.5		−12 11		0.334

(308) Polyxo 11.0 1913

1914	α		δ		log Δ
April 6	13 52.3	6.1	− 8 47	49	0.244
14	$_{18}$13 46.2	6.4	− 7 58	48	0.238
22	13 39.8	6.2	− 7 10	46	0.238
30	13 33.6	5.6	− 6 24	40	0.242
Mai 8	13 28.0	4.4	− 5 44	32	0.249
16	13 23.6		− 5 12		0.261

(679) Pax 12.5 1911

1914	α		δ		log Δ
April 6	13 54.2	6.8	+24 35	41	0.401
14	$_{18}$13 47.4	7.1	+25 16	26	0.402
22	13 40.3	6.8	+25 42	8 —	0.406
30	13 33.5	6.2	+25 50	9	0.413
Mai 8	13 27.3	5.0	+25 41	21	0.422
16	13 22.3		+25 20		0.432

(518) Halawe 13.6 1903

1914	α		δ		log Δ
April 6	14 0.1	6.6	−11 48	56	0.226
14	$_{20}$13 53.5	7.0	−10 52	61	0.215
22	13 46.5	7.0	− 9 51	60	0.209
30	13 39.5	6.4	− 8 51	57	0.208
Mai 8	13 33.1	5.4	− 7 54	50	0.212
16	13 27.7		− 7 4		0.219

(746) [1913 *QY*] 12.3 1913

1914	α		δ		log Δ
April 6	14 7.6	7.5	−26 5	16	0.318
14	$_{20}$14 0.1	8.1	−26 21	6 —	0.306
22	13 52.0	8.2	−26 27	3	0.299
30	13 43.8	7.9	−26 24	11	0.295
Mai 8	13 35.9	7.0	−26 13	17	0.295
16	13 28.9		−25 56		0.299

(448) Natalie 13.8 1910

1914	α		δ		log Δ
April 6	14 9.3	6.4	− 9 32	12	0.380
14	$_{21}$14 2.9	6.7	− 9 20	13	0.373
22	13 56.2	6.7	− 9 7	12	0.369
30	13 49.5	6.3	− 8 55	10	0.369
Mai 8	13 43.2	5.6	− 8 45	5	0.372
16	13 37.6		− 8 40		0.378

(362) Havnia 11.2 1913

1914	α		δ		log Δ
April 6	14h 11m.6	7.3	−13° 28′	13	0.233
14	$_{21}$14 4.3	7.8	−13 15	16	0.226
22	13 56.5	7.7	−12 59	18	0.224
30	13 48.8	7.1	−12 41	16	0.226
Mai 8	13 41.7	6.2	−12 25	13	0.233
16	13 35.5		−12 12		0.244

(611) Valeria 14.0 1913

1914	α		δ		log Δ
April 6	14 9.5	5.4	− 6 57	62	0.338
14	$_{22}$14 4.1	5.8	− 5 55	60	0.335
22	13 58.3	5.8	− 4 55	56	0.335
30	13 52.5	5.2	− 3 59	49	0.340
Mai 8	13 47.3	4.5	− 3 10	41	0.347
16	13 42.8		− 2 29		0.358

(303) Josephina 12.4 1913

1914	α		δ		log Δ
April 6	14 11.1	5.8	−20 39	13	0.376
14	$_{22}$14 5.3	6.4	−20 26	21	0.372
22	13 58.9	6.4	−20 5	26	0.369
30	13 52.5	6.1	−19 39	28	0.369
Mai 8	13 46.4	5.3	−19 11	28	0.373
16	13 41.1		−18 43		0.381

(22) Kalliope 10.3 1913

1914	α		δ		log Δ
April 14	14 9.8	6.9	+ 0 19	16	0.335
22	$_{23}$14 2.9	6.7	+ 0 35	9	0.335
30	13 56.2	6.5	+ 0 44	2	0.338
Mai 8	13 49.7	5.7	+ 0 46	−7	0.345
16	13 44.0	4.5	+ 0 39	15	0.355
24	13 39.5		+ 0 24		0.367

(64) Angelina 10.4 1912

1914	α		δ		log Δ
April 14	14 10.9	7.1	−15 26	35	0.212
22	$_{23}$14 3.8	7.0	−14 51	38	0.211
30	13 56.8	6.5	−14 13	37	0.214
Mai 8	13 50.3	5.5	−13 36	33	0.223
16	13 44.8	4.0	−13 3	27	0.235
24	13 40.8		−12 36		0.250

(18) Melpomene 10.4 1913

1914	α		δ		log Δ
April 14	14 11.6	7.5	+ 0 54	58	0.253
22	$_{23}$14 4.1	7.4	+ 1 52	49	0.251
30	13 56.7	6.9	+ 2 41	37	0.253
Mai 8	13 49.8	6.1	+ 3 18	24	0.259
16	13 43.7	4.8	+ 3 42	12	0.270
24	13 38.9		+ 3 54		0.283

(200) Dynamene 11.9 1913

1914	α		δ		log Δ
April 14	14h 11m.8	7.4	−23° 15′	25	0.325
22	$_{23}$14 4.4	7.1	−22 50	31	0.321
30	13 57.3	6.9	−22 19	36	0.321
Mai 8	13 50.4	6.1	−21 43	39	0.325
16	13 44.3	5.0	−21 3	38	0.332
24	13 39.3		−20 25		0.343

(621) Werdandi 14.2 1911

1914	α		δ		log Δ
April 14	14 15.3	6.2	−11 27	28	0.354
22	$_{23}$14 9.1	6.2	−10 59	29	0.353
30	14 2.9	5.9	−10 30	26	0.355
Mai 8	13 57.0	5.2	−10 4	22	0.362
16	13 51.8	4.0	− 9 42	16	0.371
24	13 47.8		− 9 26		0.383

(253) Mathilde 13.8 1906

1914	α		δ		log Δ
April 14	14 18.1	6.8	− 8 15	53	0.274
22	$_{25}$14 11.3	6.8	− 7 22	53	0.266
30	14 4.5	6.6	− 6 29	48	0.262
Mai 8	13 57.9	6.1	− 5 41	40	0.263
16	13 51.8	5.2	− 5 1	33	0.268
24	13 46.6		− 4 28		0.276

(723) Hammonia 13.6 1913

1914	α		δ		log Δ
April 14	14 19.7	6.0	− 8 16	40	0.338
22	$_{25}$14 13.7	6.0	− 7 36	39	0.336
30	14 7.7	5.7	− 6 57	35	0.337
Mai 8	14 2.0	5.1	− 6 22	27	0.341
16	13 56.9	4.2	− 5 55	21	0.349
24	13 52.7		− 5 34		0.360

(613) Ginevra 13.3 1913

1914	α		δ		log Δ
April 14	14 23.6	6.9	−21 56	14	0.321
22	$_{26}$14 16.7	7.1	−21 42	20	0.317
30	14 9.6	6.9	−21 22	24	0.316
Mai 8	14 2.7	6.2	−20 58	28	0.318
16	13 56.5	5.2	−20 30	26	0.325
24	13 51.3		−20 4		0.334

(574) Reginhild 15.5 1905

1914	α		δ		log Δ
April 14	14 29.9	8.4	−22 41	25	0.257
22	$_{27}$14 21.5	8.5	−22 16	35	0.252
30	14 13.0	8.4	−21 41	38	0.251
Mai 8	14 4.6	7.5	−21 3	41	0.254
16	13 57.1	6.2	−20 22	40	0.262
24	13 50.9		−19 42		0.274

(369) Aëria 13.2 1913

1914		α		δ		log Δ
April 14		14ʰ 29.1ᵐ	6.8	+ 3° 43′	29	0.280
22	27	14 22.3	7.1	+ 4 12	20	0.276
30		14 15.2	6.9	+ 4 32	9	0.276
Mai 8		14 8.3	6.4	+ 4 41	3	0.281
16		14 1.9	5.0	+ 4 38	16	0.289
24		13 56.9		+ 4 22		0.300

(304) Olga 12.7 1910

1914		α		δ		log Δ
April 14		14 29.7	6.6	+ 6 19	81	0.202
22	27	14 23.1	7.2	+ 7 40	69	0.196
30		14 15.9	6.9	+ 8 49	53	0.193
Mai 8		14 9.0	6.3	+ 9 42	35	0.196
16		14 2.7	5.3	+10 17	16	0.202
24		13 57.4		+10 33		0.212

(355) Gabriella 13.4 1912

1914		α		δ		log Δ
April 14		14 31.5	7.5	−19 48	21	0.235
22	27	14 24.0	7.7	−19 27	28	0.230
30		14 16.3	7.5	−18 59	32	0.230
Mai 8		14 8.8	6.7	−18 27	32	0.234
16		14 2.1	5.6	−17 55	29	0.243
24		13 56.5		−17 26		0.255

(245) Vera 13.5 1913

1914		α		δ		log Δ
April 14		14 29.3	5.8	−11 20	25	0.437
22	27	14 23.5	6.1	−10 55	24	0.433
30		14 17.4	5.9	−10 31	23	0.432
Mai 8		14 11.5	5.6	−10 8	20	0.434
16		14 5.9	4.8	− 9 48	15	0.439
24		14 1.1		− 9 33		0.447

(661) Cloelia 12.7 1908

1914		α		δ		log Δ
April 14		14 35.3	6.9	−27 55	9	0.314
22	28	14 28.4	7.2	−27 46	18	0.307
30		14 21.2	7.0	−27 28	25	0.305
Mai 8		14 14.2	6.4	−27 3	30	0.306
16		14 7.8	5.5	−26 33	35	0.311
24		14 2.3		−25 58		0.319

(658) Asteria 13.9 1908

1914		α		δ		log Δ
April 14		14 38.3	6.4	−17 6	26	0.312
22	29	14 31.9	6.8	−16 40	29	0.306
30		14 25.1	6.5	−16 11	30	0.304
Mai 8		14 18.6	6.1	−15 41	30	0.306
16		14 12.5	5.4	−15 11	28	0.312
24		14 7.1		−14 43		0.321

(699) Hela 14.4 1912

1914		α		δ		log Δ
April 14		14ʰ 39.4ᵐ	6.1	−26° 52′	53	0.228
22	29	14 33.3	7.8	−25 59	67	0.211
30		14 25.5	8.2	−24 52	80	0.196
Mai 8		14 17.3	7.8	−23 32	89	0.187
16		14 9.5	7.0	−22 3	91	0.182
24		14 2.5		−20 32		0.182

(564) Dudu 12.8 1905

1914		α		δ		log Δ
April 14		14 43.7	7.8	+ 5 31	3	0.147
22	30	14 35.9	8.5	+ 5 34	11	0.135
30		14 27.4	8.6	+ 5 23	28	0.127
Mai 8		14 18.8	8.0	+ 4 55	43	0.125
16		14 10.8	7.0	+ 4 12	60	0.128
24		14 3.8		+ 3 12		0.133

(644) Cosima 13.8 1911

1914		α		δ		log Δ
April 14		14 41.9	6.6	−14 11	31	0.304
22	30	14 35.3	7.1	−13 40	34	0.296
30		14 28.2	7.1	−13 6	34	0.293
Mai 8		14 21.1	6.6	−12 32	32	0.293
16		14 14.5	5.5	−12 0	26	0.298
24		14 9.0		−11 34		0.306

(505) Cava 13.0 1913

1914		α		δ		log Δ
April 14		14 46.6	6.6	− 3 52	29	0.350
22	30	14 40.0	7.0	− 3 23	24	0.348
30		14 33.0	6.9	− 2 59	18	0.348
Mai 8		14 26.1	6.4	− 2 41	12	0.352
16		14 19.7	5.6	− 2 29	5	0.360
24		14 14.1		− 2 24		0.371

(538) Friederike 13.6 1913

1914		α		δ		log Δ
April 22		14 40.0	5.8	− 6 16	32	0.412
30	1	14 34.2	5.7	− 5 44	30	0.409
Mai 8		14 28.5	5.6	− 5 14	25	0.410
16		14 22.9	5.0	− 4 49	18	0.413
24		14 17.9	4.1	− 4 31	11	0.420
Juni 1		14 13.8		− 4 20		0.429

(573) Recha 13.6 1913

1914		α		δ		log Δ
April 22		14 46.2	7.0	−28 38	9	0.366
30	2	14 39.2	7.3	−28 29	20	0.361
Mai 8		14 31.9	6.9	−28 9	27	0.360
16		14 25.0	6.2	−27 42	30	0.361
24		14 18.8	5.1	−27 12	33	0.366
Juni 1		14 13.7		−26 39		0.374

(545) Messalina 11.7 1913

1914		α		δ		log Δ
April 22		14ʰ 46ᵐ.6	6.3	−32° 21′	6	0.298
30		14 40.3	7.3	−32 15	14	0.290
Mai 8	2	14 33.0	7.3	−32 1	22	0.285
16		14 25.7	6.6	−31 39	30	0.284
24		14 19.1	5.3	−31 9	38	0.286
Juni 1		14 13.8		−30 31		0.292

(747) [1913 *QZ*] 12.2 1913

1914		α		δ		log Δ
April 22		14 46.5	5.7	+ 8 58	32	0.485
30		14 40.8	5.8	+ 9 30	22	0.486
Mai 8	3	14 35.0	5.5	+ 9 52	13	0.489
16		14 29.5	5.0	+10 5	5	0.494
24		14 24.5	4.4	+10 0	1	0.501
Juni 1		14 20.1		+10 1		0.511

(293) Brasilia 12.6 1890

1914		α		δ		log Δ
April 22		14 52.9	7.7	− 5 56	4	0.241
30		14 45.2	7.7	− 6 0	9	0.240
Mai 8	3	14 37.5	7.4	− 6 9	16	0.244
16		14 30.1	6.5	− 6 25	22	0.251
24		14 23.6	5.0	− 6 47	29	0.262
Juni 1		14 18.6		− 7 16		0.280

(164) Eva 12.6 1913

1914		α		δ		log Δ
April 22		14 56.5	7.6	+ 7 43	14	0.362
30		14 48.9	8.0	+ 7 57	3	0.357
Mai 8	4	14 40.9	7.7	+ 8 0	10	0.356
16		14 33.2	7.3	+ 7 50	21	0.357
24		14 25.9	6.3	+ 7 29	34	0.362
Juni 1		14 19.6		+ 6 55		0.370

(212) Medea 12.7 1913

1914		α		δ		log Δ
April 22		14 56.4	6.2	−23 0	22	0.396
30		14 50.2	6.5	−22 38	27	0.391
Mai 8	4	14 43.7	6.2	−22 11	29	0.390
16		14 37.5	5.7	−21 42	30	0.393
24		14 31.8	4.9	−21 12	31	0.398
Juni 1		14 26.9		−20 41		0.406

(563) Suleika 12.2 1913

1914		α		δ		log Δ
April 22		14 58.3	6.8	− 6 6	22	0.368
30		14 51.5	7.0	− 5 44	18	0.366
Mai 8	5	14 44.5	6.7	− 5 26	13	0.367
16		14 37.8	6.2	− 5 13	6	0.373
24		14 31.6	5.2	− 5 7	1	0.381
Juni 1		14 26.4		− 5 8		0.391

(468) Lina 13.6 1907

1914		α		δ		log Δ
April 22		15ʰ 2ᵐ.5	5.8	−17° 30′	25	0.396
30		14 56.7	6.3	−17 5	26	0.389
Mai 8	6	14 50.4	6.2	−16 39	27	0.386
16		14 44.2	5.9	−16 12	26	0.386
24		14 38.3	5.1	−15 46	24	0.389
Juni 1		14 33.2		−15 22		0.395

(397) Vienna 12.9 1911

1914		α		δ		log Δ
April 22		15 12.6	6.6	−19 15	51	0.320
30		15 6.0	6.9	−18 24	55	0.311
Mai 8	8	14 59.1	7.0	−17 29	59	0.306
16		14 52.1	6.5	−16 30	59	0.304
24		14 45.6	5.8	−15 31	55	0.306
Juni 1		14 39.8		−14 36		0.312

(748) [1913 *RD*] 13.8 1913

1914		α		δ		log Δ
April 22		15 9.6	4.9	−19 41	20	0.509
30		15 4.7	5.2	−19 21	23	0.506
Mai 8	8	14 59.5	5.1	−18 58	24	0.505
16		14 54.4	4.7	−18 34	24	0.507
24		14 49.7	4.3	−18 10	23	0.511
Juni 1		14 45.4		−17 47		0.518

(534) Nassovia 13.3 1913

1914		α		δ		log Δ
April 22		15 14.7	6.2	−14 15	23	0.331
30		15 8.5	6.7	−13 52	24	0.326
Mai 8	8	15 1.8	6.6	−13 28	23	0.325
16		14 55.2	6.3	−13 5	20	0.327
24		14 48.9	5.4	−12 45	15	0.334
Juni 1		14 43.5		−12 30		0.343

(401) Ottilia 12.4 1913

1914		α		δ		log Δ
April 30		15 28.0	6.4	−20 36	6	0.339
Mai 8		15 21.6	6.5	−20 30	11	0.335
16	13	15 15.1	6.3	−20 19	12	0.334
24		15 8.8	5.8	−20 7	12	0.337
Juni 1		15 3.0	4.8	−19 55	11	0.343
9		14 58.2		−19 44		0.352

(406) Erna 13.8 1910

1914		α		δ		log Δ
April 30		15 28.8	6.1	−25 20	19	0.329
Mai 8		15 22.7	7.2	−25 1	25	0.321
16	13	15 15.5	7.0	−24 36	30	0.317
24		15 8.5	6.5	−24 6	31	0.316
Juni 1		15 2.0	5.5	−23 35	31	0.320
9		14 56.5		−23 4		0.327

(145) Adeona 11.5 1912

1914	α (h m)		δ		log Δ
April 30	15 33.6	7.5	−9° 1′	2	0.247
Mai 8	[13] 15 26.1	7.8	−8 59	— 3	0.246
16	15 18.3	7.5	−9 2	7	0.248
24	15 10.8	6.8	−9 9	13	0.255
Juni 1	15 4.0	5.5	−9 22	20	0.265
9	14 58.5		−9 42		0.279

(585) Bilkis 12.5 1910

1914	α		δ		log Δ
April 30	15 36.0	7.1	−9 26	52	0.134
Mai 8	[14] 15 28.9	7.4	−8 34	46	0.133
16	15 21.5	7.1	−7 48	37	0.136
24	15 14.4	6.2	−7 11	26	0.142
Juni 1	15 8.2	4.7	−6 45	14	0.154
9	15 3.5		−6 31		0.174

(319) Leona 15.2 1904

1914	α		δ		log Δ
Mai 8	15 39.3	5.2	−9 22	30	0.495
16	[17] 15 34.1	5.4	−8 52	27	0.494
24	15 28.7	5.1	−8 25	22	0.495
Juni 1	15 23.6	4.6	−8 3	17	0.499
9	15 19.0	3.7	−7 46	11	0.505
17	15 15.3		−7 35		0.513

(430) Hybris 14.4 1897

1914	α		δ		log Δ
Mai 8	15 41.4	6.7	−24 55	42	0.407
16	[17] 15 34.7	6.8	−24 13	45	0.405
24	15 27.9	6.3	−23 28	46	0.406
Juni 1	15 21.6	5.6	−22 42	46	0.411
9	15 16.0	4.5	−21 56	44	0.418
17	15 11.5		−21 12		0.428

(617) Patroclus 12.7 1913

1914	α		δ		log Δ
Mai 8	15 41.2	4.9	−26 24	4	0.636
16	[17] 15 36.3	5.0	−26 28	2	0.634
24	15 31.3	4.9	−26 30	— 2	0.633
Juni 1	15 26.4	4.5	−26 28	2	0.634
9	15 21.9	3.8	−26 26	3	0.637
17	15 18.1		−26 23		0.642

(315) Constantia 13.9 1891

1914	α		δ		log Δ
Mai 8	15 58.9	7.9	−16 17	32	0.092
16	[20] 15 51.0	8.4	−15 45	31	0.081
24	15 42.6	8.3	−15 14	29	0.076
Juni 1	15 34.3	7.3	−14 45	23	0.076
9	15 27.0	5.6	−14 22	14	0.081
17	15 21.4		−14 8		0.092

(409) Aspasia 10.2 1911

1914	α (h m)		δ		log Δ
Mai 8	15 57.5	7.0	−22° 49′	64	0.150
16	[20] 15 50.5	7.2	−21 45	67	0.144
24	15 43.3	6.8	−20 38	67	0.144
Juni 1	15 36.5	5.8	−19 31	65	0.148
9	15 30.7	4.4	−18 26	55	0.158
17	15 26.3		−17 31		0.172

(509) Iolanda 11.8 1910

1914	α		δ		log Δ
Mai 8	15 59.1	5.9	−13 26	51	0.356
16	[21] 15 53.2	6.1	−12 35	49	0.352
24	15 47.1	6.0	−11 46	45	0.351
Juni 1	15 41.1	5.4	−11 1	40	0.354
9	15 35.7	4.4	−10 21	31	0.360
17	15 31.3		−9 50		0.369

(745) [1913 *QX*] 13.7 1913

1914	α		δ		log Δ
Mai 8	16 2.0	5.9	−2 0	17	0.367
16	[21] 15 56.1	6.0	−1 43	9	0.367
24	15 50.1	5.9	−1 34	—	0.369
Juni 1	15 44.2	5.3	−1 34	9	0.374
9	15 38.9	4.5	−1 43	17	0.382
17	15 34.4		−2 0		0.392

(139) Juewa 10.4 1912

1914	α		δ		log Δ
Mai 8	16 9.5	8.3	−35 58	12	0.213
16	[22] 16 1.2	8.7	−36 10	— 2	0.208
24	15 52.5	8.6	−36 8	14	0.209
Juni 1	15 43.9	7.5	−35 54	23	0.215
9	15 36.4	6.0	−35 31	29	0.225
17	15 30.4		−35 2		0.239

(511) Davida 10.4 1913

1914	α		δ		log Δ
Mai 8	16 10.7	5.8	−3 53	12	0.440
16	[23] 16 4.9	6.1	−3 41	4	0.438
24	15 58.8	6.0	−3 37	— 2	0.438
Juni 1	15 52.8	5.6	−3 39	9	0.442
9	15 47.2	4.9	−3 48	15	0.448
17	15 42.3		−4 3		0.456

(725) Amanda 14.4 1911

1914	α		δ		log Δ
Mai 8	16 14.1	7.0	−20 20	13	0.312
16	[23] 16 7.1	7.8	−20 7	14	0.304
24	15 59.3	7.8	−19 53	14	0.299
Juni 1	15 51.5	7.3	−19 39	14	0.299
9	15 44.2	6.3	−19 25	13	0.303
17	15 37.9		−19 12		0.310

(268) Adorea 12.1 1913

1914	α		δ		log Δ
Mai 8	16ʰ 13.9ᵐ	5.8	−17° 52′	16	0.268
16	[24] 16 8.1	6.7	−17 36	16	0.264
24	16 1.4	6.6	−17 20	14	0.265
Juni 1	15 54.8	5.9	−17 6	12	0.269
9	15 48.9	4.9	−16 54	8	0.277
17	15 44.0		−16 46		0.289

(257) Silesia 13.4 1913

1914	α		δ		log Δ
Mai 8	16 16.7	6.2	−23 33	9	0.404
16	[24] 16 10.5	6.6	−23 24	11	0.399
24	16 3.9	6.6	−23 13	13	0.397
Juni 1	15 57.3	6.3	−23 0	14	0.398
9	15 51.0	5.5	−22 46	15	0.402
17	15 45.5		−22 31		0.408

(218) Bianca 10.8 1913

1914	α		δ		log Δ
Mai 16	16 13.9	6.4	+ 3 18	44	0.148
24	[25] 16 7.5	6.4	+ 4 2	26	0.148
Juni 1	16 1.1	5.8	+ 4 28	8	0.153
9	15 55.3	4.8	+ 4 36	—10	0.162
17	15 50.5	3.4	+ 4 26	29	0.174
25	15 47.1		+ 3 57		0.190

(580) Selene 14.5 1912

1914	α		δ		log Δ
Mai 16	16 16.7	6.1	−18 14	12	0.421
24	[26] 16 10.6	6.2	−18 2	12	0.417
Juni 1	16 4.4	6.0	−17 50	11	0.418
9	15 58.4	5.3	−17 39	8	0.421
17	15 53.1	4.5	−17 31	6	0.428
25	15 48.6		−17 25		0.437

(743) [1913 *QV*] 13.3 1913

1914	α		δ		log Δ
Mai 16	16 18.1	6.8	−19 47	30	0.290
24	[26] 16 11.3	7.0	−19 17	30	0.287
Juni 1	16 4.3	6.6	−18 47	29	0.287
9	15 57.7	5.7	−18 18	26	0.292
17	15 52.0	4.6	−17 52	21	0.301
25	15 47.4		−17 31		0.312

(165) Loreley 10.8 1913

1914	α		δ		log Δ
Mai 16	16 18.5	7.4	−36 10	23	0.301
24	[26] 16 11.1	7.3	−35 47	32	0.296
Juni 1	16 3.8	6.9	−35 15	39	0.295
9	15 56.9	6.0	−34 36	45	0.298
17	15 50.9	4.4	−33 51	50	0.304
25	15 46.5		−33 1		0.313

(458) Hercynia 14.1 1905

1914	α		δ		log Δ
Mai 16	16ʰ 22.1ᵐ	6.1	− 4° 43′	16	0.434
24	[27] 16 16.0	6.2	− 4 27	10	0.432
Juni 1	16 9.8	5.9	− 4 17	3	0.432
9	16 3.9	5.5	− 4 14	—4	0.436
17	15 58.4	4.7	− 4 18	12	0.442
25	15 53.7		− 4 30		0.450

(203) Pompeja 12.0 1913

1914	α		δ		log Δ
Mai 16	16 35.1	7.4	−26 48	10	0.280
24	[29] 16 27.7	7.8	−26 38	14	0.274
Juni 1	16 19.9	7.6	−26 24	19	0.272
9	16 12.3	6.7	−26 5	21	0.275
17	16 5.6	5.5	−25 44	22	0.281
25	16 0.1		−25 22		0.291

(190) Ismene 12.6 1913

1914	α		δ		log Δ
Mai 16	16 33.3	4.2	−14 32	16	0.536
24	[30] 16 29.1	4.8	−14 16	14	0.534
Juni 1	16 24.3	5.0	−14 2	12	0.534
9	16 19.3	4.6	−13 50	9	0.537
17	16 14.7	4.1	−13 41	6	0.542
25	16 10.6		−13 35		0.550

(704) Interamnia 10.7 1913

1914	α		δ		log Δ
Mai 16	16 40.1	7.0	−36 5	29	0.368
24	[30] 16 33.1	7.6	−35 36	38	0.361
Juni 1	16 25.5	7.4	−34 58	46	0.357
9	16 18.1	6.8	−34 12	53	0.356
17	16 11.3	6.0	−33 19	56	0.359
25	16 5.3		−32 23		0.365

(263) Dresda 13.5 1906

1914	α		δ		log Δ
Mai 16	16 44.3	6.6	−21 24	16	0.304
24	[31] 16 37.7	7.0	−21 8	18	0.302
Juni 1	16 30.7	6.9	−20 50	18	0.300
9	16 23.8	6.5	−20 32	17	0.301
17	16 17.3	5.4	−20 15	14	0.306
25	16 11.9		−20 1		0.314

(124) Alkeste 9.8 1913

1914	α		δ		log Δ
Mai 16	16 51.5	6.7	−18 21	23	0.160
24	[1] 16 44.8	7.2	−17 58	21	0.153
Juni 1	16 37.6	7.3	−17 37	19	0.150
9	16 30.3	6.7	−17 18	16	0.152
17	16 23.6	5.5	−17 2	10	0.160
25	16 18.1		−16 52		0.172

(206) Hersilia 12.2 1913

1914	α		δ		log Δ
Mai 16	16h 47.7m	6.7	−16° 44′	15	0.271
24	16 41.0	7.2	−16 29	13	0.265
Juni 1	[1]16 33.8	7.1	−16 16	11	0.264
9	16 26.7	6.5	−16 5	8	0.267
17	16 20.2	5.6	−15 57	4	0.273
25	16 14.6		−15 53		0.283

(442) Eichsfeldia 11.7 1913

1914	α		δ		log Δ
Mai 16	16 53.1	7.1	−12 14	13	0.088
24	16 46.0	7.8	−12 1	7	0.081
Juni 1	[1]16 38.2	7.8	−11 54	— 1	0.079
9	16 30.4	7.1	−11 55	9	0.083
17	16 23.3	5.8	−12 4	17	0.092
25	16 17.5		−12 21		0.106

(652) Jubilatrix 13.4 1911

1914	α		δ		log Δ
Mai 24	16 48.0	8.3	−14 35	25	0.216
Juni 1	16 39.7	8.4	−15 0	30	0.210
9	[2]16 31.3	8.0	−15 30	34	0.209
17	16 23.3	7.2	−16 4	37	0.213
25	16 16.1	5.6	−16 41	39	0.220
Juli 3	16 10.5		−17 20		0.232

(305) Gordonia 13.2 1913

1914	α		δ		log Δ
Mai 24	16 51.9	6.4	−18 36	18	0.411
Juni 1	16 45.5	6.4	−18 18	16	0.410
9	[3]16 39.1	6.0	−18 2	16	0.412
17	16 33.1	5.5	−17 46	13	0.418
25	16 27.6	4.6	−17 33	9	0.426
Juli 3	16 23.0		−17 24		0.436

(114) Kassandra 11.1 1913

1914	α		δ		log Δ
Mai 24	16 56.8	7.3	−14 49	16	0.224
Juni 1	16 49.5	7.2	−14 33	12	0.223
9	[4]16 42.3	6.9	−14 21	7	0.227
17	16 35.4	5.9	−14 14	2	0.235
25	16 29.5	4.6	−14 12	— 4	0.247
Juli 3	16 24.9		−14 16		0.262

(373) Melusina 12.8 1907

1914	α		δ		log Δ
Mai 24	16 59.1	8.4	−43 50	15	0.335
Juni 1	16 50.7	8.8	−44 5	2	0.329
9	[4]16 41.9	8.5	−44 7	— 10	0.326
17	16 33.4	7.7	−43 57	21	0.327
25	16 25.7	6.3	−43 36	31	0.330
Juli 3	16 19.4		−43 5		0.337

(119) Althaea 10.7 1913

1914	α		δ		log Δ
Mai 24	16h 59.5m	7.2	−16° 1′	27	0.226
Juni 1	16 52.3	7.5	−15 34	25	0.221
9	[1]16 44.8	7.2	−15 9	21	0.220
17	16 37.6	6.3	−14 48	15	0.223
25	16 31.3	5.0	−14 33	9	0.231
Juli 3	16 26.3		−14 24		0.242

(498) Tokio 10.8 1913

1914	α		δ		log Δ
Mai 24	17 1.6	7.5	−15 18	13	0.171
Juni 1	16 54.1	8.0	−15 31	16	0.160
9	[5]16 46.1	7.9	−15 47	21	0.155
17	16 38.2	7.2	−16 8	25	0.154
25	16 31.0	5.9	−16 33	30	0.158
Juli 3	16 25.1		−17 3		0.167

(740) [1913 *QS*] 12.5 1913

1914	α		δ		log Δ
Mai 24	17 0.7	6.6	−10 55	6	0.308
Juni 1	16 54.1	6.7	−11 1	8	0.306
9	[5]16 47.4	6.3	−11 9	13	0.309
17	16 41.1	5.7	−11 22	19	0.315
25	16 35.4	4.9	−11 41	23	0.324
Juli 3	16 30.5		−12 4		0.336

(211) Isolda 12.2 1913

1914	α		δ		log Δ
Mai 24	17 8.1	6.5	−24 0	13	0.405
Juni 1	17 1.6	6.6	−23 47	17	0.402
9	[6]16 55.0	6.6	−23 30	17	0.401
17	16 48.4	6.1	−23 13	17	0.403
25	16 42.3	5.2	−22 56	16	0.409
Juli 3	16 37.1		−22 40		0.417

(744) [1913 *QW*] 13.6 1913

1914	α		δ		log Δ
Mai 24	17 7.4	6.1	−12 11	8	0.341
Juni 1	17 1.3	6.3	−12 3	5	0.339
9	[6]16 55.0	6.1	−11 58	— 1	0.340
17	16 48.9	5.6	−11 59	6	0.345
25	16 43.3	4.8	−12 5	11	0.353
Juli 3	16 38.5		−12 16		0.364

(310) Margarita 13.2 1913

1914	α		δ		log Δ
Mai 24	17 9.9	7.0	−21 5	20	0.206
Juni 1	17 2.9	7.4	−20 45	20	0.200
9	[6]16 55.5	7.0	−20 25	20	0.201
17	16 48.5	6.3	−20 5	18	0.208
25	16 42.2	5.1	−19 47	13	0.218
Juli 3	16 37.1		−19 34		0.232

(37) Fides 11.3 1913

1914		α		δ		log Δ
Mai 24		17ʰ 15ᵐ.4	7.6	−27° 15′	4	0.327
Juni 1	7	17 7.8	7.8	−27 11	7	0.321
9		17 0.0	7.8	−27 4	10	0.319
17		16 52.2	7.3	−26 54	14	0.321
25		16 44.9	6.2	−26 40	15	0.327
Juli 3		16 38.7		−26 25		0.335

(53) Kalypso 12.5 1913

1914		α		δ		log Δ
Juni 1		17ʰ 33ᵐ.1	7.3	−16° 30	5	0.330
9	12	17 25.8	7.3	−16 25	1	0.327
17		17 18.5	7.1	−16 24	—	0.329
25		17 11.4	6.6	−16 24	4	0.334
Juli 3		17 4.8	5.8	−16 28	6	0.342
11		16 59.0		−16 34		0.352

(375) Ursula 10.8 1913

1914		α		δ		log Δ
Mai 24		17 19.5	8.2	−46 24	6	0.314
Juni 1	8	17 11.3	8.7	−46 30	$\overline{6}$	0.307
9		17 2.6	8.7	−46 24	20	0.303
17		16 53.9	7.9	−46 4	34	0.303
25		16 46.0	6.7	−45 30	46	0.306
Juli 3		16 39.3		−44 44		0.312

(581) Tauntonia 13.9 1912

1914		α		δ		log Δ
Juni 1		17 34.2	6.4	−10 19	26	0.375
9	13	17 27.8	6.7	−10 45	32	0.371
17		17 21.1	6.6	−11 17	37	0.371
25		17 14.5	6.0	−11 54	40	0.374
Juli 3		17 8.5	5.1	−12 34	44	0.380
11		17 3.4		−13 18		0.390

(403) Cyane 12.3 1913

1914		α		δ		log Δ
Mai 24		17 17.1	6.6	−21 5	31	0.289
Juni 1	8	17 10.5	7.2	−20 34	32	0.286
9		17 3.3	7.1	−20 2	31	0.286
17		16 56.2	6.4	−19 31	28	0.290
25		16 49.8	5.4	−19 3	26	0.298
Juli 3		16 44.4		−18 37		0.309

(385) Ilmatar 10.3 1913

1914		α		δ		log Δ
Juni 1		17 39.8	8.9	−44 18	$\underline{3}$	0.267
9	13	17 30.9	9.2	−44 21	11	0.264
17		17 21.7	8.8	−44 10	24	0.266
25		17 12.9	7.7	−43 46	37	0.272
Juli 3		17 5.2	6.0	−43 9	45	0.281
11		16 59.2		−42 24		0.293

(321) Florentina 13.4 1913

1914		α		δ		log Δ
Mai 24		17 17.5	6.9	−25 15	1	0.309
Juni 1	8	17 10.6	7.4	−25 14	4	0.304
9		17 3.2	7.2	−25 10	6	0.302
17		16 56.0	6.7	−25 4	7	0.305
25		16 49.3	6.0	−24 57	9	0.310
Juli 3		16 43.3		−24 48		0.319

(23) Thalia 11.2 1913

1914		α		δ		log Δ
Juni 1		17 38.9	8.2	−26 39	20	0.301
9	13	17 30.7	8.4	−26 59	14	0.300
17		17 22.3	8.0	−27 13	10	0.302
25		17 14.3	7.2	−27 23	8	0.309
Juli 3		17 7.1	6.1	−27 31	4	0.319
11		17 1.0		−27 35		0.332

(346) Hermentaria 11.7 1913

1914		α		δ		log Δ
Juni 1		17 22.5	7.4	−19 41	11	0.284
9	10	17 15.1	7.5	−19 52	13	0.280
17		17 7.6	7.1	−20 5	14	0.279
25		17 0.5	6.4	−20 19	14	0.283
Juli 3		16 54.1	5.1	−20 33	15	0.290
11		16 49.0		−20 48		0.301

(225) Henrietta 11.3 1908

1914		α		δ		log Δ
Juni 1		17 35.2	5.3	+ 4 32	62	0.231
9	13	17 29.9	5.7	+ 5 34	43	0.223
17		17 24.2	5.6	+ 6 17	24	0.221
25		17 18.6	5.0	+ 6 41	6	0.223
Juli 3		17 13.6	4.0	+ 6 47	$\overline{10}$	0.228
11		17 9.6		+ 6 37		0.236

(239) Adrastea 14.6 1900

1914		α		δ		log Δ
Juni 1		17 27.5	6.6	−14 40	13	0.362
9	11	17 20.9	6.7	−14 27	10	0.356
17		17 14.2	6.6	−14 17	6	0.354
25		17 7.6	6.0	−14 11	2	0.355
Juli 3		17 1.6	5.0	−14 9	$\overline{1}$	0.360
11		16 56.6		−14 10		0.367

(629) Bernardina 14.4 1907

1914		α		δ		log Δ
Juni 1		17 43.9	6.4	−21 56	11	0.404
9	15	17 37.5	6.8	−22 7	11	0.401
17		17 30.7	6.6	−22 18	10	0.402
25		17 24.1	6.1	−22 28	10	0.405
Juli 3		17 18.0	5.3	−22 38	10	0.412
11		17 12.7		−22 48		0.422

(456) Abnoba 11.9 1910

1914	α		δ		log Δ
Juni 1	17h 46m.3	6.7	−10° 43′	65	0.130
9	$_{15}$17 39.6	6.9	− 9 38	56	0.127
17	17 32.7	6.6	− 8 42	44	0.129
25	17 26.1	5.8	− 7 58	32	0.136
Juli 3	17 20.3	4.5	− 7 26	19	0.148
11	17 15.8		− 7 7		0.163

(436) Patricia 13.1 1904

1914	α		δ		log Δ
Juni 1	17 52.0	8.6	−49 37	17	0.374
9	$_{16}$17 43.4	9.1	−49 54	2	0.368
17	17 34.3	9.1	−49 56	13	0.366
25	17 25.2	8.4	−49 43	26	0.366
Juli 3	17 16.8	7.1	−49 17	38	0.370
11	17 9.7		−48 39		0.376

(370) Modestia 12.8 1913

1914	α		δ		log Δ
Juni 1	17 51.8	7.3	−30 22	22	0.129
9	$_{16}$17 44.5	8.8	−30 0	30	0.119
17	17 35.7	9.0	−29 30	38	0.114
25	17 26.7	8.1	−28 52	42	0.114
Juli 3	17 18.6	6.6	−28 10	44	0.120
11	17 12.0		−27 26		0.130

(480) Hansa 11.8 1913

1914	α		δ		log Δ
Juni 1	17 51.1	6.5	− 9 22	64	0.256
9	$_{16}$17 44.6	7.4	− 8 18	57	0.250
17	17 37.2	7.5	− 7 21	49	0.250
25	17 29.7	6.8	− 6 32	38	0.253
Juli 3	17 22.9	5.8	− 5 54	27	0.260
11	17 17.1		− 5 27		0.271

(377) Campania 11.8 1913

1914	α		δ		log Δ
Juni 1	17 50.9	6.8	−15 31	19	0.271
9	$_{16}$17 44.1	7.1	−15 12	16	0.264
17	17 37.0	7.2	−14 56	12	0.262
25	17 29.8	6.7	−14 44	8	0.264
Juli 3	17 23.1	5.6	−14 36	3	0.269
11	17 17.5		−14 33		0.278

(741) [1913 *QT*] 13.0 1913

1914	α		δ		log Δ
Juni 1	17 52.7	7.1	−19 5	17	0.249
9	$_{16}$17 45.6	7.6	−19 22	19	0.243
17	17 38.0	7.5	−19 41	19	0.243
25	17 30.5	6.9	−20 0	20	0.246
Juli 3	17 23.6	5.9	−20 20	21	0.254
11	17 17.7		−20 41		0.266

(683) Lancia 12.4 1910

1914	α		δ		log Δ
Juni 1	17h 56m.1	6.7	−22° 13′	43	0.331
9	$_{17}$17 49.4	7.1	−21 30	42	0.326
17	17 42.3	6.9	−20 48	42	0.325
25	17 35.4	6.5	−20 6	41	0.328
Juli 3	17 28.9	5.5	−19 25	38	0.334
11	17 23.4		−18 47		0.344

(144) Vibilia 10.7 1913

1914	α		δ		log Δ
Juni 1	17 58.5	7.2	−24 8	18	0.230
9	$_{17}$17 51.3	8.0	−24 26	12	0.218
17	17 43.3	8.3	−24 38	10	0.210
25	17 35.0	8.0	−24 48	8	0.206
Juli 3	17 27.0	6.9	−24 56	5	0.208
11	17 20.1		−25 1		0.213

(62) Erato 12.8 1913

1914	α		δ		log Δ
Juni 1	17 56.8	5.8	−21 23	0	0.392
9	$_{17}$17 51.0	6.6	−21 23	1	0.385
17	17 44.4	6.7	−21 24	0	0.381
25	17 37.7	6.4	−21 24	0	0.381
Juli 3	17 31.3	5.7	−21 24	1	0.384
11	17 25.6		−21 25		0.390

(604) Tekmessa 13.0 1906

1914	α		δ		log Δ
Juni 1	17 57.2	6.4	−29 34	5	0.404
9	$_{17}$17 50.8	7.1	−29 39	3	0.400
17	17 43.7	7.2	−29 42	2	0.398
25	17 36.5	6.8	−29 40	5	0.400
Juli 3	17 29.7	6.2	−29 35	10	0.405
11	17 23.5		−29 25		0.412

(58) Concordia 11.5 1913

1914	α		δ		log Δ
Juni 9	17 57.1	7.0	−15 38	1	0.224
17	$_{18}$17 50.1	7.2	−15 37	3	0.222
25	17 42.9	6.8	−15 40	8	0.223
Juli 3	17 36.1	5.7	−15 48	11	0.230
11	17 30.4	3.8	−15 59	15	0.239
19	17 26.6		−16 14		0.253

(358) Apollonia 13.0 1913

1914	α		δ		log Δ
Juni 9	18 0.3	6.7	−18 22	2	0.353
17	$_{19}$17 53.6	6.9	−18 20	1	0.349
25	17 46.7	6.7	−18 19	—	0.348
Juli 3	17 40.0	6.1	−18 19	2	0.352
11	17 33.9	5.0	−18 21	5	0.358
19	17 28.9		−18 26		0.367

(26) Proserpina 10.0 1913

1914	α		δ		log Δ
Juni 9	18h 1.7m	7.9	−27° 18′	10	0.162
17	19 17 53.8	8.1	−27 28	8	0.159
25	17 45.7	7.4	−27 36	3	0.161
Juli 3	17 38.3	6.3	−27 39	3	0.168
11	17 32.0	4.7	−27 36	12	0.179
19	17 27.3		−27 24		0.191

(724) Hapag 16.3 1911

1914	α		δ		log Δ
Juni 9	18 9.3	7.5	− 7 31	23	0.267
17	21 18 1.8	7.8	− 7 8	16	0.260
25	17 54.0	7.7	− 6 52	7	0.256
Juli 3	17 46.3	7.1	− 6 45	3	0.257
11	17 39.2	6.1	− 6 48	11	0.261
19	17 33.1		− 6 59		0.269

(432) Pythia 10.2 1913

1914	α		δ		log Δ
Juni 9	18 12.7	7.9	−22 8	75	0.011
17	21 18 4.8	8.5	−23 23	73	0.004
25	17 56.3	8.1	−24 36	70	0.005
Juli 3	17 48.2	7.2	−25 46	64	0.011
11	17 41.0	5.8	−26 50	55	0.025
19	17 35.2		−27 45		0.043

(499) Venusia 14.0 1911

1914	α		δ		log Δ
Juni 9	18 11.1	4.8	−22 52	1	0.576
17	22 18 6.3	5.3	−22 51	1	0.573
25	18 1.0	5.3	−22 50	2	0.573
Juli 3	17 55.7	5.0	−22 48	2	0.575
11	17 50.7	4.4	−22 46	2	0.580
19	17 46.3		−22 44		0.585

(568) Cheruskia 12.9 1912

1914	α		δ		log Δ
Juni 9	18 15.2	6.8	−14 42	35	0.363
17	22 18 8.4	7.1	−14 7	32	0.356
25	18 1.3	7.0	−13 35	28	0.354
Juli 3	17 54.3	6.4	−13 7	24	0.356
11	17 47.9	5.6	−12 43	19	0.361
19	17 42.3		−12 24		0.369

(249) Ilse 13.7 1907

1914	α		δ		log Δ
Juni 9	18 17.9	9.4	−38 29	6	0.162
17	22 18 8.5	10.2	−38 35	9	0.150
25	17 58.3	10.2	−38 26	22	0.144
Juli 3	17 48.1	9.1	−38 4	35	0.142
11	17 39.0	7.3	−37 29	44	0.145
19	17 31.7		−36 45		0.152

(583) Klothilde 13.5 1908

1914	α		δ		log Δ
Juni 9	18h 14.9m	6.4	−21° 52′	13	0.384
17	22 18 8.5	6.7	−21 39	13	0.382
25	18 1.8	6.5	−21 26	14	0.383
Juli 3	17 55.3	5.9	−21 12	14	0.387
11	17 49.4	5.0	−20 58	11	0.395
19	17 44.4		−20 47		0.405

(259) Aletheia 11.6 1913

1914	α		δ		log Δ
Juni 9	18 23.4	6.5	−23 31	34	0.265
17	24 18 16.9	7.0	−24 5	32	0.260
25	18 9.9	6.9	−24 37	30	0.259
Juli 3	18 3.0	6.3	−25 7	28	0.263
11	17 56.7	5.5	−25 35	25	0.270
19	17 51.2		−26 0		0.281

(52) Europa 10.7 1913

1914	α		δ		log Δ
Juni 9	18 22.8	6.1	−16 40	10	0.389
17	24 18 16.7	6.4	−16 50	12	0.385
25	18 10.3	6.4	−17 2	13	0.384
Juli 3	18 3.9	6.0	−17 15	15	0.386
11	17 57.9	5.4	−17 30	16	0.392
19	17 52.5		−17 46		0.400

(167) Urda 12.8 1913

1914	α		δ		log Δ
Juni 9	18 24.6	6.9	−20 1	3	0.249
17	24 18 17.7	7.1	−20 4	4	0.243
25	18 10.6	7.0	−20 8	4	0.241
Juli 3	18 3.6	6.5	−20 12	5	0.243
11	17 57.1	5.5	−20 17	5	0.250
19	17 51.6		−20 22		0.260

(372) Palma 11.8 1913

1914	α		δ		log Δ
Juni 9	18 30.3	8.6	−49 59	2	0.488
17	25 18 21.7	9.0	−50 1	8	0.484
25	18 12.7	9.0	−49 53	18	0.482
Juli 3	18 3.7	8.4	−49 35	30	0.483
11	18 55.3	7.4	−49 5	41	0.486
19	18 47.9		−48 24		0.492

(449) Hamburga 12.6 1913

1914	α		δ		log Δ
Juni 17	18 28.9	8.0	−23 51	12	0.270
25	26 18 20.9	8.0	−24 3	11	0.270
Juli 3	18 12.9	7.5	−24 14	8	0.273
11	18 5.4	6.5	−24 22	6	0.281
19	17 58.9	5.3	−24 28	4	0.292
27	17 53.6		−24 32		0.306

(75) Eurydike 10.2 1913

1914	α		δ		log Δ
Juni 17	18h 29.5m	8.0	−32° 42′	14	0.057
25	18 21.5	8.4	−32 56	4	0.044
Juli 3	[26] 18 13.1	8.0	−33 0	6	0.037
11	18 5.1	6.6	−32 54	16	0.036
19	17 58.5	4.8	−32 38	24	0.040
27	17 53.7		−32 14		0.048

(195) Eurykleia 12.7 1913

1914	α		δ		log Δ
Juni 17	18 31.9	7.8	−33 46	10	0.298
25	18 24.1	8.0	−33 56	2	0.295
Juli 3	[27] 18 16.1	7.4	−33 58	5	0.297
11	18 8.7	6.6	−33 53	11	0.302
19	18 2.1	5.2	−33 42	18	0.311
27	17 56.9		−33 24		0.323

(556) Phyllis 13.0 1913

1914	α		δ		log Δ
Juni 17	18 33.5	8.2	−25 4	8	0.233
25	18 25.3	8.3	−24 56	10	0.230
Juli 3	[27] 18 17.0	7.9	−24 46	13	0.231
11	18 9.1	6.9	−24 33	15	0.237
19	18 2.2	5.5	−24 18	14	0.246
27	17 56.7		−24 4		0.259

(95) Arethusa 11.5 1913

1914	α		δ		log Δ
Juni 17	18 33.8	6.5	−13 39	22	0.348
25	18 27.3	6.8	−13 17	18	0.343
Juli 3	[27] 18 20.5	6.5	−12 59	14	0.341
11	18 14.0	5.9	−12 45	10	0.343
19	18 8.1	5.0	−12 35	6	0.349
27	18 3.1		−12 29		0.357

(496) Gryphia 13.5 1902

1914	α		δ		log Δ
Juni 17	18 38.5	8.4	−17 20	2	0.128
25	18 30.1	8.9	−17 18	1	0.123
Juli 3	[28] 18 21.2	8.3	−17 19	4	0.123
11	18 12.9	7.3	−17 23	7	0.128
19	18 5.6	5.7	−17 30	10	0.139
27	17 59.9		−17 40		0.153

(216) Kleopatra 10.4 1913

1914	α		δ		log Δ
Juni 17	18 38.6	6.5	− 6 18	24	0.299
25	[28] 18 32.1	7.2	− 5 54	13	0.291
Juli 3	18 24.9	7.0	− 5 41	4	0.286
11	18 17.9	6.4	− 5 37	5	0.286
19	18 11.5	5.5	− 5 42	12	0.289
27	18 6.0		− 5 54		0.296

(156) Xanthippe 10.4 1913

1914	α		δ		log Δ
Juni 17	18h 44.4m	7.3	−14° 9′	31	0.123
25	18 37.1	7.5	−13 38	25	0.123
Juli 3	[29] 18 29.6	6.9	−13 13	17	0.128
11	18 22.7	6.0	−12 56	10	0.138
19	18 16.7	4.4	−12 46	4	0.152
27	18 12.3		−12 42		0.171

(44) Nysa 10.5 1913

1914	α		δ		log Δ
Juni 17	18 45.4	7.8	−19 38	14	0.250
25	18 37.6	8.1	−19 52	14	0.246
Juli 3	[29] 18 29.5	7.9	−20 6	15	0.246
11	18 21.6	7.1	−20 21	14	0.251
19	18 14.5	5.9	−20 35	14	0.260
27	18 8.6		−20 49		0.272

(334) Chicago 12.1 1913

1914	α		δ		log Δ
Juni 17	18 46.3	5.4	−19 15	10	0.465
25	18 40.9	5.6	−19 25	10	0.462
Juli 3	[30] 18 35.3	5.4	−19 35	11	0.461
11	18 29.9	5.0	−19 46	11	0.463
19	18 24.9	4.4	−19 57	11	0.468
27	18 20.5		−20 8		0.476

(579) Sidonia 11.1 1913

1914	α		δ		log Δ
Juni 17	18 52.1	6.8	−26 43	40	0.263
25	18 45.3	7.3	−27 23	38	0.257
Juli 3	[1] 18 38.0	7.1	−28 1	33	0.255
11	18 30.9	6.7	−28 34	27	0.257
19	18 24.2	5.7	−29 1	22	0.264
27	18 18.5		−29 23		0.274

(140) Siwa 10.0 1913

1914	α		δ		log Δ
Juni 17	19 2.9	5.9	−21 30	24	0.077
25	18 57.0	6.8	−21 54	26	0.066
Juli 3	[3] 18 50.2	6.9	−22 20	25	0.060
11	18 43.3	6.3	−22 45	24	0.061
19	18 37.0	5.3	−23 9	20	0.066
27	18 31.7		−23 29		0.077

(524) Fidelio 12.7 1912

1914	α		δ		log Δ
Juni 17	19 7.5	7.6	−32 11	5	0.264
25	[3] 18 59.9	8.5	−32 16	1	0.255
Juli 3	18 51.4	8.6	−32 15	6	0.251
11	18 42.8	8.1	−32 9	16	0.251
19	18 34.7	7.0	−31 53	24	0.255
27	18 27.7		−31 29		0.263

(706) [1910 *KX*] 13.4 1910

1914	α		δ		log Δ
Juni 25	19h 4m.7	9.4	−40° 25′	13	0.186
Juli 3	$_4$18 55.3	9.8	−40 12	29	0.178
11	18 45.5	9.2	−39 43	45	0.176
19	18 36.3	7.8	−38 58	57	0.178
27	18 28.5	5.4	−38 1	60	0.184
Aug. 4	18 23.1		−37 1		0.194

(650) Amalasuntha 14.8 1907

1914	α		δ		log Δ
Juni 25	19 3.8	8.0	−18 48	6	0.189
Juli 3	$_4$18 55.8	8.2	−18 54	7	0.181
11	18 47.6	7.9	−19 1	7	0.178
19	18 39.7	7.0	−19 8	8	0.180
27	18 32.7	5.1	−19 16	9	0.186
Aug. 4	18 27.6		−19 25		0.196

(739) [1913 *QR*] 12.3 1913

1914	α		δ		log Δ
Juni 25	19 3.6	7.1	− 3 30	49	0.255
Juli 3	$_4$18 56.5	7.0	− 4 19	60	0.254
11	18 49.5	6.6	− 5 19	68	0.256
19	18 42.9	5.8	− 6 27	73	0.263
27	18 37.1	4.7	− 7 40	75	0.274
Aug. 4	18 32.4		− 8 55		0.287

(434) Hungaria 11.4 1911

1914	α		δ		log Δ
Juni 25	19 5.1	7.1	+22 11	12	9.980
Juli 3	$_5$18 58.0	7.5	+21 59	53	9.972
11	18 50.5	7.1	+21 6	93	9.967
19	18 43.4	5.7	+19 33	127	9.967
27	18 37.7	3.9	+17 26	156	9.971
Aug. 4	18 33.8		+14 50		9.980

(31) Euphrosyne 12.1 1907

1914	α		δ		log Δ
Juni 25	19 8.9	9.8	−55 39	28	0.470
Juli 3	$_5$18 59.1	10.2	−56 7	14	0.468
11	18 48.9	9.8	−56 21	1	0.470
19	18 39.1	8.7	−56 20	14	0.474
27	18 30.4	7.3	−56 6	27	0.479
Aug. 4	18 23.1		−55 39		0.487

(69) Hesperia 11.5 1913

1914	α		δ		log Δ
Juni 25	19 8.7	6.2	−10 37	7	0.396
Juli 3	$_6$19 2.5	6.3	−10 44	12	0.394
11	18 56.2	6.2	−10 56	16	0.394
19	18 50.0	5.6	−11 12	20	0.397
27	18 44.4	4.7	−11 32	22	0.404
Aug. 4	18 39.7		−11 54		0.412

(57) Mnemosyne 10.9 1913

1914	α		δ		log Δ
Juni 25	19h 9m.1	5.9	− 0° 57′	4	0.373
Juli 3	$_6$19 3.2	6.1	− 0 53	5	0.368
11	18 57.1	6.0	− 0 58	15	0.367
19	18 51.1	5.5	− 1 13	24	0.368
27	18 45.6	4.9	− 1 37	33	0.372
Aug. 4	18 40.7		− 2 10		0.382

(255) Oppavia 14.0 1913

1914	α		δ		log Δ
Juni 25	19 15.7	8.3	−37 4	20	0.268
Juli 3	$_6$19 7.4	8.6	−37 24	9	0.267
11	18 58.8	8.2	−37 33	2	0.269
19	18 50.6	7.2	−37 31	12	0.275
27	18 43.4	5.5	−37 19	23	0.285
Aug. 4	18 37.9		−36 56		0.297

(522) Helga 12.5 1912

1914	α		δ		log Δ
Juni 25	19 13.4	5.7	−20 39	17	0.407
Juli 3	$_7$19 7.7	5.9	−20 56	16	0.403
11	19 1.8	5.8	−21 12	16	0.402
19	18 56.0	5.3	−21 28	15	0.405
27	18 50.7	4.4	−21 43	14	0.410
Aug. 4	18 46.3		−21 57		0.418

(647) Adelgunde 14.2 1907

1914	α		δ		log Δ
Juni 25	19 19.5	7.8	−16 41	6	0.255
Juli 3	$_7$19 11.7	8.2	−16 35	3	0.248
11	19 3.5	7.9	−16 32	2	0.245
19	18 55.6	7.2	−16 30	1	0.246
27	18 48.4	6.1	−16 29	1	0.251
Aug. 4	18 42.3		−16 30		0.261

(420) Bertholda 12.5 1912

1914	α		δ		log Δ
Juni 25	19 18.6	5.7	−16 29	1	0.410
Juli 3	$_8$19 12.9	6.0	−16 28	2	0.406
11	19 6.9	6.0	−16 30	3	0.406
19	19 0.9	5.4	−16 33	4	0.408
27	18 55.5	4.8	−16 37	6	0.414
Aug. 4	18 50.7		−16 43		0.422

(67) Asia 9.9 1913

1914	α		δ		log Δ
Juni 25	19 26.7	5.8	−10 11	10	0.005
Juli 3	$_9$19 20.9	6.8	−10 1	4	9.995
11	19 14.1	6.8	−10 5	14	9.990
19	19 7.3	6.2	−10 19	23	9.991
27	19 1.1	4.4	−10 42	31	9.998
Aug. 4	18 56.7		−11 13		0.010

(233) Asterope 10.9 1913

1914	α		δ		log Δ
Juni 25	19ʰ 30ᵐ.7	6.5	−10° 33′	9	0.186
Juli 3	[10] 19 24.2	7.1	−10 24	2	0.177
11	19 17.1	7.1	−10 22	— 5	0.172
19	19 10.0	6.7	−10 27	11	0.173
27	19 3.3	5.4	−10 38	18	0.177
Aug. 4	18 57.9		−10 56		0.186

(66) Maja 12.6 1913

1914	α		δ		log Δ
Juni 25	19 33.0	7.3	−26 30	18	0.269
Juli 3	[10] 19 25.7	8.0	−26 48	15	0.260
11	19 17.7	8.1	−27 3	11	0.256
19	19 9.6	7.5	−27 14	7	0.256
27	19 2.1	6.6	−27 21	0	0.259
Aug. 4	18 55.5		−27 21		0.267

(240) Vanadis 13.0 1913

1914	α		δ		log Δ
Juni 25	19 33.9	6.9	−21 11	20	0.287
Juli 3	[11] 19 27.0	7.5	−21 31	20	0.279
11	19 19.5	7.7	−21 51	19	0.273
19	19 11.8	7.3	−22 10	17	0.272
27	19 4.5	6.4	−22 27	15	0.275
Aug. 4	18 58.1		−22 42		0.282

(210) Isabella 12.7 1913

1914	α		δ		log Δ
Juni 25	19 38.5	6.9	−29 18	26	0.273
Juli 3	[11] 19 31.6	7.9	−29 44	22	0.266
11	19 23.7	8.0	−30 6	16	0.262
19	19 15.7	7.5	−30 22	8	0.262
27	19 8.2	6.8	−30 30	0	0.266
Aug. 4	19 1.4		−30 30		0.275

(287) Nephthys 10.6 1913

1914	α		δ		log Δ
Juli 3	19 43.1	7.3	−11 31	48	0.119
11	[14] 19 35.8	7.7	−12 19	55	0.114
19	19 28.1	7.3	−13 14	59	0.114
27	19 20.8	6.3	−14 13	61	0.119
Aug. 4	19 14.5	4.6	−15 14	59	0.130
12	19 9.9		−16 13		0.144

(488) Kreusa 12.0 1913

1914	α		δ		log Δ
Juli 3	19 43.6	6.7	−27 49	33	0.404
11	[14] 19 36.9	6.7	−28 22	30	0.402
19	19 30.2	6.4	−28 52	26	0.404
27	19 23.8	5.8	−29 18	20	0.408
Aug. 4	19 18.0	5.0	−29 38	13	0.416
12	19 13.0		−29 51		0.428

(2) Pallas 9.3 1913

1914	α		δ		log Δ
Juli 3	19ʰ 44ᵐ.1	6.3	+20° 26′	19	0.419
11	[14] 19 37.8	6.5	+20 7	36	0.414
19	19 31.3	6.2	+19 31	52	0.412
27	19 25.1	5.7	+18 39	66	0.413
Aug. 4	19 19.4	4.9	+17 33	79	0.415
12	19 14.5		+16 14		0.421

(637) Chrysothemis 14.3 1910

1914	α		δ		log Δ
Juli 3	19 47.5	6.4	−21 36	16	0.371
11	[15] 19 41.1	6.6	−21 52	15	0.369
19	19 34.5	6.2	−22 7	13	0.371
27	19 28.3	5.7	−22 20	11	0.376
Aug. 4	19 22.6	4.7	−22 31	8	0.384
12	19 17.9		−22 39		0.395

(340) Eduarda 13.3 1913

1914	α		δ		log Δ
Juli 3	19 49.4	7.5	−28 13	22	0.295
11	[15] 19 41.9	7.8	−28 35	18	0.290
19	19 34.1	7.5	−28 53	13	0.289
27	19 26.6	6.8	−29 6	9	0.292
Aug. 4	19 19.8	5.7	−29 15	— 3	0.299
12	19 14.1		−29 12		0.308

(587) Hypsipyle 14.9 1906

1914	α		δ		log Δ
Juli 3	19 58.7	12.5	−46 16	30	0.210
11	[15] 19 46.2	12.8	−45 46	44	0.208
19	19 33.4	11.9	−45 2	58	0.212
27	19 21.5	10.3	−44 4	81	0.219
Aug. 4	19 11.2	7.9	−42 43	88	0.231
12	19 3.3		−41 15		0.246

(614) Pia 13.8 1906

1914	α		δ		log Δ
Juli 3	19 51.5	6.8	−10 9	5	0.269
11	[16] 19 44.7	7.1	−10 14	11	0.262
19	19 37.6	6.9	−10 25	17	0.259
27	19 30.7	6.3	−10 42	21	0.261
Aug. 4	19 24.4	5.4	−11 3	24	0.266
12	19 19.0		−11 27		0.275

(331) Etheridgea 12.1 1905

1914	α		δ		log Δ
Juli 3	19 54.5	6.8	−30 18	23	0.275
11	[16] 19 47.7	7.4	−30 41	19	0.269
19	19 40.3	7.2	−31 0	11	0.267
27	19 33.1	6.6	−31 11	2	0.269
Aug. 4	19 26.5	5.4	−31 13	— 6	0.276
12	19 21.1		−31 7		0.285

(602) Marianna 12.0 1906

1914	α		δ		log Δ
Juli 3	20h 2.6m	8.8	−37° 56′	4	0.264
11	17 19 53.8	9.0	−38 0	— 10	0.253
19	19 44.8	9.0	−37 50	21	0.248
27	19 35.8	8.3	−37 29	35	0.246
Aug. 4	19 27.5	6.6	−36 54	44	0.248
12	19 20.9		−36 10		0.254

(532) Herculina 10.0 1913

1914	α		δ		log Δ
Juli 3	20 2.9	6.9	−22 14	62	0.275
11	18 19 56.0	7.4	−23 16	60	0.272
19	19 48.6	7.3	−24 16	56	0.274
27	19 41.3	6.7	−25 12	50	0.280
Aug. 4	19 34.6	5.8	−26 2	42	0.290
12	19 28.8		−26 44		0.304

(130) Elektra 10.2 1913

1914	α		δ		log Δ
Juli 3	20 3.7	5.5	− 1 43	46	0.300
11	19 19 58.2	6.2	− 2 29	58	0.289
19	19 52.0	6.3	− 3 27	69	0.282
27	19 45.7	5.9	− 4 36	78	0.278
Aug. 4	19 39.8	5.3	− 5 54	83	0.278
12	19 34.5		− 7 17		0.282

(726) [1911 *NM*] 13.7 1912

1914	α		δ		log Δ
Juli 3	20 10.1	7.3	− 3 6	23	0.216
11	19 20 2.8	7.9	− 2 43	12	0.206
19	19 54.9	7.8	− 2 31	—	0.199
27	19 47.1	7.4	− 2 31	10	0.197
Aug. 4	19 39.7	6.6	− 2 41	18	0.199
12	19 33.1		− 2 59		0.206

(247) Eukrate* 12.0 1913

1914	α		δ		log Δ
Juli 11	20 23.7	11.9	−55 8	15	0.320
19	22 20 11.8	12.4	−55 23	— 7	0.316
27	19 59.4	11.8	−55 16	27	0.315
Aug. 4	19 47.6	10.4	−54 49	46	0.317
12	19 37.2	8.8	−54 3	64	0.321
20	19 28.4		−52 59		0.329

(531) Zerlina 13.6 1904

1914	α		δ		log Δ
Juli 11	20 26.2	6.1	+33 27	3	0.234
19	24 20 20.1	6.3	+33 24	32	0.229
27	20 13.8	6.1	+32 52	61	0.226
Aug. 4	20 7.7	5.5	+31 51	88	0.225
12	20 2.2	4.2	+30 23	110	0.227
20	19 58.0		+28 33		0.232

(198) Ampella 9.9 1912

1914	α		δ		log Δ
Juli 11	20h 33.0m	7.1	− 9° 32′	33	0.040
19	25 20 25.9	7.8	− 8 59	28	0.025
27	20 18.1	8.0	− 8 31	20	0.016
Aug. 4	20 10.1	7.3	− 8 11	11	0.013
12	20 2.8	5.9	− 8 0	2	0.016
20	19 56.9		− 7 58		0.024

(428) Monachia 13.3 1897

1914	α		δ		log Δ
Juli 11	20 36.6	7.9	−29 52	35	0.108
19	26 20 28.7	9.1	−30 27	27	0.097
27	20 19.6	9.3	−30 54	15	0.091
Aug. 4	20 10.3	8.6	−31 9	2	0.090
12	20 1.7	6.9	−31 11	— 11	0.095
20	19 54.8		−31 0		0.105

(469) Argentina 13.1 1913

1914	α		δ		log Δ
Juli 11	20 34.9	7.1	−28 52	11	0.380
19	26 20 27.8	7.3	−29 3	5	0.378
27	20 20.5	7.2	−29 8	— 1	0.380
Aug. 4	20 13.3	6.6	−29 7	7	0.384
12	20 6.7	5.6	−29 0	13	0.392
20	20 1.1		−28 47		0.403

(557) Violetta 14.2 1909

1914	α		δ		log Δ
Juli 11	20 38.6	7.3	−18 0	17	0.229
19	26 20 31.3	8.0	−18 17	20	0.224
27	20 23.3	7.8	−18 37	19	0.221
Aug. 4	20 15.5	7.3	−18 56	16	0.224
12	20 8.2	6.1	−19 12	14	0.231
20	20 2.1		−19 26		0.242

(12) Victoria 8.1 1913

1914	α		δ		log Δ
Juli 11	20 37.1	5.8	− 2 0	33	9.935
19	27 20 31.3	6.3	− 1 27	14	9.925
27	20 25.0	6.4	− 1 13	— 4	9.920
Aug. 4	20 18.6	5.6	− 1 17	20	9.923
12	20 13.0	4.1	− 1 37	35	9.929
20	20 8.9		− 2 12		9.936

(14) Irene 10.0 1913

1914	α		δ		log Δ
Juli 19	20 32.2	7.9	−27 10	47	0.244
27	27 20 24.3	7.7	−27 57	39	0.246
Aug. 4	20 16.6	7.1	−28 36	30	0.253
12	20 9.5	6.0	−29 6	20	0.263
20	20 3.5	4.5	−29 26	10	0.277
28	19 59.0		−29 36		0.293

(543) Charlotte 12.7 1911

1914	α		δ		log Δ
Juli 11	20h 38m.9	6.5	−17° 23′	3	0.321
19	[27] 20 32.4	6.9	−17 26	4	0.313
27	20 25.5	7.0	−17 30	5	0.309
Aug. 4	20 18.5	6.7	−17 35	4	0.307
12	20 11.8	6.1	−17 39	2	0.311
20	20 5.7		−17 41		0.317

(16) Psyche 9.3 1913

1914	α		δ		log Δ
Juli 19	20 34.5	6.5	−16 24	30	0.245
27	[27] 20 28.0	6.6	−16 54	32	0.240
Aug. 4	20 21.4	6.3	−17 26	31	0.239
12	20 15.1	5.5	−17 57	28	0.242
20	20 9.6	4.1	−18 25	24	0.250
28	20 5.5		−18 49		0.260

(5) Astraea 10.9 1913

1914	α		δ		log Δ
Juli 19	20 39.7	7.0	−15 57	36	0.312
27	[28] 20 32.7	7.2	−16 33	37	0.311
Aug. 4	20 25.5	6.9	−17 10	35	0.312
12	20 18.6	6.0	−17 45	33	0.318
20	20 12.6	5.0	−18 18	28	0.327
28	20 7.6		−18 46		0.339

(554) Peraga 11.0 1911

1914	α		δ		log Δ
Juli 19	20 44.3	8.4	−17 24	21	0.173
27	[29] 20 35.9	8.4	−17 45	20	0.165
Aug. 4	20 27.5	7.8	−18 5	17	0.163
12	20 19.7	7.0	−18 22	14	0.165
20	20 12.7	5.7	−18 36	12	0.172
28	20 7.0		−18 48		0.184

(444) Gyptis 10.3 1913

1914	α		δ		log Δ
Juli 19	20 42.7	5.9	− 1 15	23	0.152
27	[29] 20 36.8	6.3	− 1 38	37	0.143
Aug. 4	20 30.5	6.0	− 2 15	47	0.139
12	20 24.5	5.2	− 3 2	55	0.140
20	20 19.3	3.8	− 3 57	61	0.145
28	20 15.5		− 4 58		0.155

(192) Nausikaa 8.3 1913

1914	α		δ		log Δ
Juli 19	20 48.9	8.3	−26 58	9	0.033
27	[30] 20 40.6	9.0	−27 7	1	0.022
Aug. 4	20 31.6	8.7	−27 8	10	0.015
12	20 22.9	7.6	−26 58	21	0.015
20	20 15.3	5.7	−26 37	33	0.020
28	20 9.6		−26 4		0.031

(147) Protogeneia 12.4 1913

1914	α		δ		log Δ
Juli 19	20h 53m.4	6.0	−15° 7′	21	0.322
27	[1] 20 47.4	6.3	−15 28	22	0.318
Aug. 4	20 41.1	6.2	−15 50	21	0.316
12	20 34.9	5.6	−16 11	21	0.320
20	20 29.3	4.6	−16 32	19	0.326
28	20 24.7		−16 51		0.335

(364) Isara 11.8 1913

1914	α		δ		log Δ
Juli 19	20 58.6	7.7	−20 50	59	0.113
27	[1] 20 50.9	8.5	−21 49	57	0.104
Aug. 4	20 42.4	8.3	−22 46	52	0.100
12	20 34.1	7.5	−23 38	43	0.101
20	20 26.6	6.2	−24 21	32	0.108
28	20 20.4		−24 53		0.119

(606) Brangäne 12.0 1910

1914	α		δ		log Δ
Juli 19	21 1.1	7.6	−20 52	3	0.114
27	[2] 20 53.5	8.4	−20 49	7	0.102
Aug. 4	20 45.1	8.4	−20 42	10	0.096
12	20 36.7	7.6	−20 32	16	0.095
20	20 29.1	6.2	−20 16	21	0.099
28	20 22.9		−19 55		0.109

(288) Glauke* 12.7 1913

1914	α		δ		log Δ
Juli 19	21 2.5	6.7	−17 36	40	0.259
27	[2] 20 55.8	7.1	−18 16	40	0.257
Aug. 4	20 48.7	6.8	−18 56	37	0.260
12	20 41.9	6.2	−19 33	33	0.267
20	20 35.7	5.2	−20 6	26	0.278
28	20 30.5		−20 32		0.291

(162) Laurentia 13.2 1912

1914	α		δ		log Δ
Juli 19	21 2.3	6.4	−25 44	29	0.406
27	[2] 20 55.9	6.7	−26 13	26	0.403
Aug. 4	20 49.2	6.7	−26 39	20	0.404
12	20 42.5	6.2	−26 59	14	0.408
20	20 36.3	5.4	−27 13	7	0.415
28	20 30.9		−27 20		0.424

(184) Dejopeja 12.6 1913

1914	α		δ		log Δ
Juli 19	21 5.2	5.9	−17 26	23	0.359
27	[3] 20 59.3	6.2	−17 49	24	0.355
Aug. 4	20 53.1	6.2	−18 13	21	0.355
12	20 46.9	5.8	−18 34	20	0.358
20	20 41.1	5.1	−18 54	17	0.364
28	20 36.0		−19 11		0.374

(352) Gisela 11.7 1913

1914	α		δ		log Δ
Juli 19	21h 14.3m	6.8	−10° 17′	13	0.050
27	$_{4}$21 7.5	8.1	−10 30	21	0.036
Aug. 4	20 59.4	8.3	−10 51	27	0.026
12	20 51.1	7.7	−11 18	30	0.023
20	20 43.4	6.5	−11 48	29	0.026
28	20 36.9		−12 17		0.034

(751) [1913 *RK*] 11.1 1913

1914	α		δ		log Δ
Juli 27	21 11.9	7.9	−37 19	75	0.146
Aug. 4	$_{5}$21 4.0	8.2	−38 34	59	0.143
12	20 55.8	7.7	−39 33	40	0.145
20	20 48.1	6.5	−40 13	20	0.151
28	20 41.6	4.8	−40 33	2	0.160
Sept. 5	20 36.8		−40 31		0.175

(705) [1910 *KV*] 12.4 1913

1914	α		δ		log Δ
Juli 27	21 18.8	10.3	−48 53	3	0.335
Aug. 4	$_{6}$21 8.5	10.3	−48 56	16	0.335
12	20 58.2	9.6	−48 40	33	0.338
20	20 48.6	8.3	−48 7	49	0.344
28	20 40.3	6.5	−47 18	64	0.353
Sept. 5	20 33.8		−46 14		0.367

(690) Wratislavia 11.0 1911

1914	α		δ		log Δ
Juli 27	21 18.3	6.2	+ 0 19	2	0.242
Aug. 4	$_{7}$21 12.1	6.4	+ 0 21	8	0.234
12	21 5.7	6.2	+ 0 13	17	0.230
20	20 59.5	5.7	− 0 4	25	0.230
28	20 53.8	4.6	− 0 29	31	0.234
Sept. 5	20 49.2		− 1 0		0.242

(262) Valda 14.2 1900

1914	α		δ		log Δ
Juli 27	21 22.7	7.8	−28 28	41	0.218
Aug. 4	$_{8}$21 14.9	8.4	−29 9	32	0.211
12	21 6.5	8.2	−29 41	22	0.208
20	20 58.3	7.4	−30 3	8	0.210
28	20 50.9	6.2	−30 11	6	0.216
Sept. 5	20 44.7		−30 5		0.226

(503) Evelyn 13.1 1912

1914	α		δ		log Δ
Juli 27	21 23.3	6.8	−22 16	38	0.333
Aug. 4	$_{8}$21 16.5	7.1	−22 54	34	0.329
12	21 9.4	6.9	−23 28	29	0.328
20	21 2.5	6.3	−23 57	23	0.332
28	20 56.2	5.5	−24 20	14	0.338
Sept. 5	20 50.7		−24 34		0.348

(663) Gerlinde 13.6 1913

1914	α		δ		log Δ
Juli 27	21h 23.7m	5.8	+10° 32′	10	0.395
Aug. 4	$_{9}$21 17.9	6.0	+10 22	21	0.391
12	21 11.9	5.8	+10 1	31	0.389
20	21 6.1	5.3	+ 9 30	40	0.391
28	21 0.8	4.7	+ 8 50	47	0.395
Sept. 5	20 56.1		+ 8 3		0.403

(201) Penelope 10.7 1913

1914	α		δ		log Δ
Juli 27	21 24.9	5.7	−10 41	50	0.089
Aug. 4	$_{9}$21 19.2	6.1	−11 31	56	0.081
12	21 13.1	6.0	−12 27	57	0.078
20	21 7.1	5.2	−13 24	54	0.081
28	21 1.9	3.8	−14 18	49	0.089
Sept. 5	20 58.1		−15 7		0.102

(462) Eriphyla 12.9 1913

1914	α		δ		log Δ
Juli 27	21 31.7	5.9	−17 9	40	0.230
Aug. 4	$_{10}$21 25.8	6.7	−17 49	39	0.225
12	21 19.1	6.5	−18 28	36	0.224
20	21 12.6	5.7	−19 4	31	0.226
28	21 6.9	4.8	−19 35	24	0.234
Sept. 5	21 2.1		−19 59		0.239

(440) Theodora 13.5 1913

1914	α		δ		log Δ
Juli 27	21 35.5	7.8	−13 18	31	0.157
Aug. 4	$_{10}$21 27.7	8.4	−13 49	33	0.148
12	21 19.3	8.2	−14 22	32	0.145
20	21 11.1	7.6	−14 54	30	0.148
28	21 3.5	6.3	−15 24	25	0.155
Sept. 5	20 57.2		−15 49		0.165

(343) Ostara 13.1 1903

1914	α		δ		log Δ
Juli 27	21 41.1	7.1	−19 59	41	0.119
Aug. 4	$_{12}$21 34.0	8.1	−20 40	39	0.106
12	21 25.9	8.1	−21 19	34	0.098
20	21 17.8	7.8	−21 53	25	0.095
28	21 10.0	7.1	−22 18	11	0.097
Sept. 5	21 2.9		−22 29		0.106

(265) Anna 13.3 1913

1914	α		δ		log Δ
Aug. 4	21 45.8	13.3	−31 58	58	0.089
12	$_{13}$21 32.5	12.7	−31 0	73	0.095
20	21 19.8	11.1	−29 47	84	0.108
28	21 8.7	8.7	−28 23	90	0.125
Sept. 5	21 0.0	6.1	−26 53	97	0.147
13	20 53.9		−25 16		0.172

(636) Erika 11.4 1913

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	21ʰ 42ᵐ.6	6.9	−27° 55′	27	0.153
12	[14] 21 35.7	7.2	−28 22	18	0.152
20	21 28.5	6.6	−28 40	5 —	0.155
28	21 21.9	5.5	−28 45	9	0.162
Sept. 5	21 16.4	3.5	−28 36	23	0.174
13	21 12.9		−28 13		0.189

(439) Ohio 12.8 1909

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	21 49.5	5.4	+11 5	32	0.357
12	[16] 21 44.1	5.6	+10 33	45	0.350
20	21 38.5	5.4	+ 9 48	56	0.346
28	21 33.1	4.9	+ 8 52	65	0.346
Sept. 5	21 28.2	4.0	+ 7 47	70	0.348
13	21 24.2		+ 6 37		0.354

(217) Eudora 11.0 1909

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	21 49.1	4.0	− 4 15	80	0.008
12	[16] 21 45.1	4.4	− 5 35	89	0.002
20	21 40.7	4.1	− 7 4	94	0.003
28	21 36.6	3.3	− 8 38	91	0.009
Sept. 5	21 33.3	1.8	−10 9	82	0.022
13	21 31.5		−11 31		0.040

(36) Atalante 11.4 1912

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	21 58.6	9.7	−35 22	10 —	0.183
12	[16] 21 48.9	10.2	−35 32	8	0.174
20	21 38.7	10.2	−35 24	28	0.169
28	21 28.5	9.0	−34 56	46	0.169
Sept. 5	21 19.5	7.4	−34 10	61	0.173
13	21 12.1		−33 9		0.182

(450) Brigitta 12.9 1907

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	21 58.3	7.0	−26 44	25	0.269
12	[17] 21 51.3	7.3	−27 9	16	0.265
20	21 44.0	7.1	−27 25	6 —	0.265
28	21 36.9	6.5	−27 31	5	0.269
Sept. 5	21 30.4	5.3	−27 26	16	0.277
13	21 25.1		−27 10		0.288

(664) Judith 13.2 1913

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	21 56.7	5.3	− 4 37	49	0.219
12	[17] 21 51.4	5.7	− 5 26	56	0.217
20	21 45.7	5.6	− 6 22	58	0.219
28	21 40.1	4.8	− 7 20	57	0.226
Sept. 5	21 35.3	3.6	− 8 17	52	0.238
13	21 31.7		− 9 9		0.253

(291) Alice 14.1 1913

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	22ʰ 1ᵐ.9	7.3	−10° 58′	45	0.157
12	[18] 21 54.6	7.8	−11 43	47	0.150
20	21 46.8	7.8	−12 30	47	0.149
28	21 39.0	7.1	−13 17	43	0.152
Sept. 5	21 31.9	5.7	−14 0	35	0.161
13	21 26.2		−14 35		0.174

(540) Rosamunde 12.6 1913

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	22 2.3	7.1	− 3 25	42	0.146
12	[18] 21 55.2	7.6	− 4 7	52	0.140
20	21 47.6	7.5	− 4 59	56	0.139
28	21 40.1	6.8	− 5 55	57	0.143
Sept. 5	21 33.3	5.1	− 6 52	52	0.152
13	21 28.2		− 7 44		0.166

(627) Charis 12.8 1907

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	22 0.9	5.7	−12 2	50	0.252
12	[18] 21 55.2	6.1	−12 52	51	0.248
20	21 49.1	5.9	−13 43	49	0.247
28	21 43.2	5.5	−14 32	45	0.251
Sept. 5	21 37.7	4.7	−15 17	39	0.260
13	21 33.0		−15 56		0.271

(479) Caprera 12.4 1913

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	22 5.1	5.7	−13 12	65	0.189
12	[19] 21 59.4	6.3	−14 17	67	0.178
20	21 53.1	6.4	−15 24	65	0.171
28	21 46.7	6.2	−16 29	60	0.170
Sept. 5	21 40.5	5.1	−17 29	51	0.173
13	21 35.4		−18 20		0.181

(727) Nipponia 12.5 1913

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	22 6.3	5.8	−15 39	90	0.182
12	[19] 22 0.5	6.4	−17 9	90	0.174
20	21 54.1	6.6	−18 39	84	0.171
28	21 47.5	6.1	−20 3	76	0.173
Sept. 5	21 41.4	5.0	−21 19	64	0.180
13	21 36.4		−22 23		0.191

(318) Magdalena 13.3 1913

1914	α	Diff.	δ	Diff.	log Δ
Aug. 4	22 8.1	5.0	− 6 41	45	0.362
12	[20] 22 3.1	5.3	− 7 26	50	0.356
20	21 57.8	5.4	− 8 16	52	0.353
28	21 52.4	5.2	− 9 8	51	0.354
Sept. 5	21 47.2	4.5	− 9 59	48	0.358
13	21 42.7		−10 47		0.365

(752) [1913 *RL*] 13.3 1913

1914	α		δ		log Δ
Aug. 12	22h 8.2m	7.3	−20° 27′	50	0.204
20	22 0.9	7.4	−21 17	44	0.202
28	[21] 21 53.5	7.1	−22 1	34	0.205
Sept. 5	21 46.4	6.2	−22 35	22	0.212
13	21 40.2	4.4	−22 57	10	0.223
21	21 35.8		−23 7		0.238

(750) [1913 *RG*] 14.4 1913

1914	α		δ		log Δ
Aug. 12	22 11.7	7.4	−17 37	44	0.238
20	22 4.3	7.5	−18 21	39	0.236
28	[21] 21 56.8	7.1	−19 0	33	0.238
Sept. 5	21 49.7	6.2	−19 33	25	0.245
13	21 43.5	4.8	−19 58	11	0.256
21	21 38.7		−20 9		0.270

(1) Ceres 7.9 1913

1914	α		δ		log Δ
Aug. 12	22 11.7	6.8	−26 23	47	0.299
20	22 4.9	7.0	−27 10	38	0.299
28	[22] 21 57.9	6.6	−27 48	27	0.302
Sept. 5	21 51.3	5.7	−28 15	15	0.310
13	21 45.6	4.5	−28 30	2	0.321
21	21 41.1		−28 32		0.334

(77) Frigga 11.0 1910

1914	α		δ		log Δ
Aug. 12	22 13.2	6.9	−13 31	33	0.215
20	22 6.3	7.2	−14 4	31	0.209
28	[22] 21 59.1	6.9	−14 35	28	0.208
Sept. 5	21 52.2	6.0	−15 3	21	0.211
13	21 46.2	4.8	−15 24	14	0.219
21	21 41.4		−15 38		0.228

(425) Cornelia 13.3 1908

1914	α		δ		log Δ
Aug. 12	22 24.7	6.4	−16 26	36	0.309
20	22 18.3	6.6	−17 2	35	0.308
28	[25] 22 11.7	6.3	−17 37	30	0.310
Sept. 5	22 5.4	5.7	−18 7	24	0.315
13	21 59.7	4.7	−18 31	16	0.323
21	21 55.0		−18 47		0.334

(181) Eucharis 11.9 1906

1914	α		δ		log Δ
Aug. 12	22 25.5	5.4	−12 4	66	0.384
20	22 20.1	5.6	−13 10	67	0.378
28	[25] 22 14.5	5.6	−14 17	64	0.275
Sept. 5	22 8.9	5.3	−15 21	58	0.376
13	22 3.6	4.5	−16 19	53	0.381
21	21 59.1		−17 12		0.388

(548) Kressida 13.0 1909

1914	α		δ		log Δ
Aug. 12	22h 34.2m	6.7	−13° 47′	58	0.105
20	22 27.5	7.7	−14 45	58	0.094
28	[26] 22 19.8	7.7	−15 43	54	0.088
Sept. 5	22 12.1	7.2	−16 37	45	0.088
13	22 4.9	5.8	−17 22	32	0.092
21	21 59.1		−17 54		0.102

(646) Kastalia 13.0 1907

1914	α		δ		log Δ
Aug. 12	22 35.7	7.1	− 1 53	23	9.932
20	22 28.6	7.6	− 1 30	10	9.921
28	[27] 22 21.0	7.3	− 1 20	3	9.917
Sept. 5	22 13.7	6.4	− 1 17	3	9.921
13	22 7.3	4.6	− 1 20	6	9.931
21	22 2.7		− 1 26		9.947

(657) Gunlöd 14.2 1908

1914	α		δ		log Δ
Aug. 12	22 37.3	7.0	+ 1 1	11	0.280
20	22 30.3	7.3	+ 0 50	18	0.274
28	[27] 22 23.0	7.3	+ 0 32	24	0.272
Sept. 5	22 15.7	6.8	+ 0 8	28	0.274
13	22 8.9	5.8	− 0 20	29	0.280
21	22 3.1		− 0 49		0.290

(667) Denise 13.8 1908

1914	α		δ		log Δ
Aug. 12	22 33.8	4.9	− 7 44	73	0.396
20	22 28.9	5.3	− 8 57	77	0.389
28	[27] 22 23.6	5.4	−10 14	76	0.386
Sept. 5	22 18.2	5.1	−11 30	73	0.386
13	22 13.1	4.4	−12 43	67	0.390
21	22 8.7		−13 50		0.397

(261) Prymno 11.9 1913

1914	α		δ		log Δ
Aug. 12	22 41.4	6.9	−13 27	54	0.191
20	22 34.5	7.4	−14 21	50	0.186
28	[28] 22 27.1	7.6	−15 11	46	0.185
Sept. 5	22 19.5	7.0	−15 57	38	0.190
13	22 12.5	5.8	−16 35	28	0.198
21	22 6.7		−17 3		0.201

(160) Una 11.7 1910

1914	α		δ		log Δ
Aug. 12	22 41.2	6.3	−12 25	31	0.236
20	22 34.9	6.9	−12 56	31	0.229
28	[28] 22 28.0	6.9	−13 27	28	0.226
Sept. 5	22 21.1	6.6	−13 55	23	0.228
13	22 14.5	5.5	−14 18	16	0.234
21	22 9.0		−14 34		0.244

(615) Roswitha 12.3 1913

1914	α		δ		log Δ
Aug. 20	22ʰ 36ᵐ.5	7.0	−12° 4′	34	0.184
28	22 29.5	7.1	−12 38	31	0.185
Sept. 5	[29] 22 22.4	6.5	−13 9	25	0.190
13	22 15.9	5.5	−13 34	18	0.201
21	22 10.4	4.0	−13 52	9	0.215
29	22 6.4		−14 1		0.232

(451) Patientia 10.7 1913

1914	α		δ		log Δ
Aug. 20	22 37.5	6.2	−29 43	52	0.318
28	22 31.3	6.5	−30 35	39	0.319
Sept. 5	[29] 22 24.8	6.0	−31 14	26	0.322
13	22 18.8	5.3	−31 40	11	0.329
21	22 13.5	4.0	−31 51	−3	0.339
29	22 9.5		−31 48		0.351

(482) Petrina 11.7 1913

1914	α		δ		log Δ
Aug. 20	22 41.0	5.3	+ 1 15	65	0.279
28	22 35.7	5.5	+ 0 10	71	0.276
Sept. 5	[30] 22 30.2	5.2	− 1 1	74	0.278
13	22 25.0	4.5	− 2 15	71	0.283
21	22 20.5	3.4	− 3 26	67	0.292
29	22 17.1		− 4 33		0.305

(333) Badenia 11.8 1912

1914	α		δ		log Δ
Aug. 20	22 47.9	6.2	−10 0	25	0.216
28	22 41.7	6.4	−10 25	24	0.211
Sept. 5	[31] 22 35.3	6.1	−10 49	21	0.210
13	22 29.2	5.4	−11 10	16	0.214
21	22 23.8	4.2	−11 26	9	0.222
29	22 19.6		−11 35		0.232

(525) Adelaide 12.3 1904

1914	α		δ		log Δ
Aug. 20	22 49.5	5.7	−10 15	47	0.203
28	22 43.8	6.0	−11 2	47	0.192
Sept. 5	[1] 22 37.8	5.9	−11 49	44	0.185
13	22 31.9	5.4	−12 33	38	0.183
21	22 26.5	4.4	−13 11	30	0.185
29	22 22.1		−13 41		0.192

(665) Sabine 12.8 1912

1914	α		δ		log Δ
Aug. 28	23 2.1	6.8	+10 37	11	0.326
Sept. 5	[5] 22 55.3	6.6	+10 26	21	0.325
13	22 48.7	6.1	+10 5	27	0.328
21	22 42.6	5.4	+ 9 38	31	0.334
29	22 37.2	4.2	+ 9 7	33	0.343
Okt. 7	22 33.0		+ 8 34		0.356

(527) Euryanthe 11.7 1913

1914	α		δ		log Δ
Aug. 20	23ʰ 9ᵐ.4	5.4	−15° 55′	76	0.129
28	23 4.0	6.0	−17 11	71	0.125
Sept. 5	[5] 22 58.0	5.9	−18 22	59	0.127
13	22 52.1	5.3	−19 21	45	0.134
21	22 46.8	4.3	−20 6	29	0.145
29	22 42.5		−20 35		0.161

(476) Hedwig 11.1 1913

1914	α		δ		log Δ
Aug. 28	23 5.4	7.2	+10 35	16	0.199
Sept. 5	[5] 22 58.2	7.2	+10 19	26	0.196
13	22 51.0	6.7	+ 9 53	36	0.197
21	22 44.3	5.6	+ 9 17	41	0.203
29	22 38.7	4.4	+ 8 36	38	0.212
Okt. 7	22 34.3		+ 7 58		0.226

(356) Liguria 10.6 1912

1914	α		δ		log Δ
Aug. 28	23 10.2	7.3	− 9 13	19	0.202
Sept. 5	[7] 23 2.9	7.8	− 9 32	19	0.194
13	22 55.1	7.4	− 9 51	14	0.191
21	22 47.7	6.6	−10 5	7	0.192
29	22 41.1	5.3	−10 12	−2	0.198
Okt. 7	22 35.8		−10 10		0.208

(142) Polana 12.5 1913

1914	α		δ		log Δ
Aug. 28	23 11.2	7.4	− 2 10	40	0.192
Sept. 5	[7] 23 3.8	7.3	− 2 50	42	0.192
13	22 56.5	6.9	− 3 32	42	0.196
21	22 49.6	5.9	− 4 14	37	0.204
29	22 43.7	4.5	− 4 51	30	0.217
Okt. 7	22 39.2		− 5 21		0.234

(447) Valentine* 12.1 1913

1914	α		δ		log Δ
Aug. 28	23 11.4	6.1	−13 12	40	0.276
Sept. 5	[7] 23 5.3	6.3	−13 52	35	0.274
13	22 59.0	5.9	−14 27	29	0.277
21	22 53.1	5.2	−14 56	20	0.283
29	22 47.9	4.1	−15 16	9	0.292
Okt. 7	22 43.8		−15 25		0.305

(465) Alekto 13.7 1908

1914	α		δ		log Δ
Aug. 28	23 12.4	6.0	− 0 24	30	0.367
Sept. 5	[7] 23 6.4	6.1	− 0 54	32	0.367
13	23 0.3	5.8	− 1 26	32	0.369
21	22 54.5	5.2	− 1 58	31	0.376
29	22 49.3	4.1	− 2 29	27	0.385
Okt. 7	22 45.2		− 2 56		0.398

(454) Mathesis 12.1 1913

1914	α		δ		log Δ
Aug. 28	23h 16.5m	7.0	−13° 1′	34	0.259
Sept. 5	$_{8}$23 9.5	7.2	−13 35	30	0.259
13	23 2.3	6.8	−14 5	22	0.263
21	22 55.5	6.0	−14 27	13	0.271
29	22 49.5	4.9	−14 40	4	0.282
Okt. 7	22 44.6		−14 44		0.297

(354) Eleonora 10.6 1913

1914	α		δ		log Δ
Aug. 28	23 18.3	5.7	−15 12	78	0.324
Sept. 5	$_{9}$23 12.6	5.9	−16 30	71	0.322
13	23 6.7	5.8	−17 41	63	0.324
21	23 0.9	5.4	−18 44	51	0.329
29	22 55.5	4.6	−19 35	34	0.338
Okt. 7	22 50.9		−20 9		0.350

(63) Ausonia 9.7 1913

1914	α		δ		log Δ
Aug. 28	23 24.1	7.6	− 2 47	22	0.108
Sept. 5	$_{9}$23 16.5	8.0	− 3 9	24	0.106
13	23 8.5	7.6	− 3 33	23	0.110
21	23 0.9	6.6	− 3 56	20	0.119
29	22 54.3	5.0	− 4 16	14	0.133
Okt. 7	22 49.3		− 4 30		0.151

(312) Pierretta 12.2 1913

1914	α		δ		log Δ
Aug. 28	23 27.5	7.2	−10 7	19	0.214
Sept. 5	$_{10}$23 20.3	7.6	−10 26	18	0.214
13	23 12.7	7.2	−10 44	11	0.218
21	23 5.5	6.4	−10 55	5	0.227
29	22 59.1	5.1	−11 0	3	0.240
Okt. 7	22 54.0		−10 57		0.256

(351) Yrsa 12.8 1912

1914	α		δ		log Δ
Aug. 28	23 31.3	6.2	−16 20	54	0.324
Sept. 5	$_{12}$23 25.1	6.4	−17 14	48	0.319
13	23 18.7	6.4	−18 2	40	0.319
21	23 12.3	6.0	−18 42	30	0.322
29	23 6.3	5.2	−19 12	18	0.329
Okt. 7	23 1.1		−19 30		0.339

(86) Semele 11.3 1912

1914	α		δ		log Δ
Aug. 28	23 30.8	5.4	−11 22	44	0.200
Sept. 5	$_{12}$23 25.4	6.1	−12 6	42	0.193
13	23 19.3	6.0	−12 48	37	0.190
21	23 13.3	5.4	−13 25	26	0.193
29	23 7.9	4.2	−13 51	14	0.199
Okt. 7	23 3.7		−14 5		0.210

(467) Laura 13.9 1901

1914	α		δ		log Δ
Aug. 28	23h 33.8m	6.1	+ 1° 27′	17	0.260
Sept. 5	$_{12}$23 27.7	6.6	+ 1 10	23	0.252
13	23 21.1	6.6	+ 0 47	26	0.248
21	23 14.5	6.2	+ 0 21	26	0.248
29	23 8.3	5.3	− 0 5	24	0.252
Okt. 7	23 3.0		− 0 29		0.261

(552) Sigelinde 12.3 1909

1914	α		δ		log Δ
Sept. 5	23 33.8	5.8	+ 8 43	31	0.355
13	$_{14}$23 28.0	5.8	+ 8 12	37	0.353
21	23 22.2	5.5	+ 7 35	41	0.354
29	23 16.7	4.9	+ 6 54	43	0.358
Okt. 7	23 11.8	3.8	+ 6 11	40	0.366
15	23 8.0		+ 5 31		0.577

(279) Thule 13.7 1906

1914	α		δ		log Δ
Sept. 5	23 34.8	4.5	− 6 5	30	0.496
13	$_{14}$23 30.3	4.6	− 6 35	28	0.495
21	23 25.7	4.4	− 7 3	25	0.497
29	23 21.3	3.9	− 7 28	21	0.502
Okt. 7	23 17.4	3.2	− 7 49	17	0.508
15	23 14.2		− 8 6		0.515

(277) Elvira 12.5 1909

1914	α		δ		log Δ
Sept. 5	23 39.1	6.1	− 0 30	40	0.213
13	$_{15}$23 33.0	6.2	− 1 10	42	0.207
21	23 26.8	5.8	− 1 52	41	0.210
29	23 21.0	5.0	− 2 33	36	0.215
Okt. 7	23 16.0	3.8	− 3 9	31	0.225
15	23 12.2		− 3 40		0.239

(700) Auravictrix 13.6 1913

1914	α		δ		log Δ
Sept. 5	23 43.3	7.7	−13 41	58	0.158
13	$_{15}$23 35.6	7.8	−14 39	49	0.159
21	23 27.8	7.1	−15 28	35	0.164
29	23 20.7	6.1	−16 3	21	0.174
Okt. 7	23 14.6	4.6	−16 24	7	0.188
15	23 10.0		−16 31		0.206

(517) Edith 12.3 1909

1914	α		δ		log Δ
Sept. 5	23 41.9	5.9	+ 3 13	31	0.243
13	$_{16}$23 36.0	5.9	+ 2 42	36	0.237
21	23 30.1	5.8	+ 2 6	38	0.234
29	23 24.3	5.1	+ 1 28	36	0.235
Okt. 7	23 19.2	4.1	+ 0 52	33	0.242
15	23 15.1		+ 0 19		0.251

(453) Tea 12.6 1913

1914	α		δ		log Δ
Sept. 5	23h 54.0m	8.2	− 4° 30′	32	0.113
13	[18] 23 45.8	8.6	− 5 2	31	0.111
21	23 37.2	8.2	− 5 33	26	0.115
29	23 29.0	7.1	− 5 59	18	0.124
Okt. 7	23 21.9	5.5	− 6 17	9	0.138
15	23 16.4		− 6 26		0.157

(154) Bertha 11.6 1912

1914	α		δ		log Δ
Sept. 5	23 53.3	6.8	−26 20	20	0.391
13	[18] 23 46.5	7.2	−26 40	7	0.390
21	23 39.3	7.0	−26 47	— 5	0.393
29	23 32.3	6.2	−26 42	18	0.400
Okt. 7	23 26.1	5.2	−26 24	30	0.409
15	23 20.9		−25 54		0.421

(433) Eros* 10.5 1912

1914	α		δ		log Δ
Sept. 5	0 5.0	12.0	+22 43	72	9.825
13	[18] 23 53.0	14.8	+23 55	37	9.797
21	23 38.2	15.6	+24 32	—	9.774
29	23 22.6	14.8	+24 32	35	9.760
Okt. 7	23 7.8	12.4	+23 57	63	9.754
15	23 55.4		+22 54		9.757

(65) Cybele 11.1 1913

1914	α		δ		log Δ
Sept. 5	23 54.3	5.2	− 1 58	40	0.393
13	[19] 23 49.1	5.3	− 2 38	41	0.391
21	23 43.8	5.2	− 3 19	39	0.392
29	23 38.6	4.7	− 3 58	36	0.396
Okt. 7	23 33.9	4.0	− 4 34	29	0.404
15	23 29.9		− 5 3		0.414

(134) Sophrosyne 10.8 1912

1914	α		δ		log Δ
Sept. 5	23 59.7	8.0	+ 2 39	3	0.170
13	[19] 23 51.7	8.2	+ 2 36	6	0.160
21	23 43.5	8.2	+ 2 30	9	0.156
29	23 35.3	7.5	+ 2 21	8	0.158
Okt. 7	23 27.8	6.2	+ 2 13	6	0.164
15	23 21.6		+ 2 7		0.175

(194) Prokne 9.1 1913

1914	α		δ		log Δ
Sept. 5	23 57.7	4.4	− 7 22	146	0.022
13	[20] 23 53.3	4.7	− 9 48	139	0.023
21	23 48.6	4.5	−12 7	122	0.030
29	23 44.1	3.6	−14 9	99	0.043
Okt. 7	23 40.5	2.3	−15 48	73	0.062
15	23 38.2		−17 1		0.085

(383) Janina 12.6 1909

1914	α		δ		log Δ
Sept. 5	0h 1.1m	5.7	− 4° 18′	42	0.251
13	[20] 23 55.4	5.9	− 5 0	40	0.244
21	23 49.5	6.0	− 5 40	37	0.241
29	23 43.5	5.4	− 6 17	32	0.242
Okt. 7	23 38.1	4.6	− 6 49	24	0.248
15	23 33.5		− 7 13		0.256

(98) Ianthe 13.4 1912

1914	α		δ		log Δ
Sept. 5	0 5.3	7.2	+ 1 3	13	0.332
13	[20] 23 58.1	7.6	+ 0 50	15	0.325
21	23 50.5	7.6	+ 0 35	16	0.322
29	23 42.9	7.2	+ 0 19	14	0.323
Okt. 7	23 35.7	6.3	+ 0 5	12	0.328
15	23 29.4		− 0 7		0.336

(196) Philomela 10.3 1913

1914	α		δ		log Δ
Sept. 5	0 3.5	5.8	−11 12	40	0.319
13	[21] 23 57.7	6.1	−11 52	36	0.316
21	23 51.6	5.9	−12 28	27	0.317
29	23 45.7	5.5	−12 55	19	0.322
Okt. 7	23 40.2	4.8	−13 14	10	0.329
15	23 35.4		−13 24		0.341

(586) Thekla 12.9 1912

1914	α		δ		log Δ
Sept. 13	0 3.9	6.0	+ 2 28	41	0.306
21	[22] 23 57.9	5.9	+ 1 47	41	0.303
29	23 52.0	5.6	+ 1 6	40	0.303
Okt. 7	23 46.4	5.1	+ 0 26	37	0.308
15	23 41.3	3.9	− 0 11	31	0.316
23	23 37.4		− 0 42		0.327

(379) Huenna 11.4 1912

1914	α		δ		log Δ
Sept. 13	0 7.0	5.6	+ 0 32	43	0.186
21	0 1.4	5.7	− 0 11	43	0.184
29	[23] 23 55.7	5.3	− 0 54	40	0.187
Okt. 7	23 50.4	4.3	− 1 34	34	0.194
15	23 46.1	3.2	− 2 8	26	0.206
23	23 42.9		− 2 34		0.221

(337) Devosa 11.3 1912

1914	α		δ		log Δ
Sept. 13	0 13.8	8.0	+ 2 8	17	0.135
21	0 5.8	8.4	+ 1 51	20	0.127
29	[24] 23 57.4	8.1	+ 1 31	19	0.125
Okt. 7	23 49.3	7.1	+ 1 12	16	0.128
15	23 42.2	5.5	+ 0 56	10	0.135
23	23 36.7		+ 0 46		0.148

(**722**) Frieda 12.9 1911

1914		α		δ		log Δ
Sept. 13		0h 14m.6	8.3	− 7° 59′	29	9.985
21		0 6.3	8 4	− 8 28	20	9.987
29	24	23 57.9	7.6	− 8 48	8	9.996
Okt. 7		23 50.3	6.0	− 8 56	— 7	0.011
15		23 44.3	3.9	− 8 49	20	0.031
23		23 40.4		− 8 29		0.055

(**589**) Croatia 12.5 1912

1914		α		δ		log Δ
Sept. 13		0 12.5	5.2	+ 1 17	63	0.302
21		0 7.3	5.4	+ 0 14	64	0.298
29	24	0 1.9	5.2	− 0 50	60	0.299
Okt. 7		23 56.7	4.6	− 1 50	56	0.303
15		23 52.1	3.4	− 2 46	47	0.311
23		23 48.7		− 3 33		0.323

(**624**) Hektor 13.3 1913

1914		α		δ		log Δ
Sept. 13		0 11.9	4.2	+10 32	10	0.650
21		0 7.7	4.2	+10 22	13	0.648
29	25	0 3.5	4.2	+10 9	14	0.647
Okt. 7		23 59.3	3.9	+ 9 55	16	0.649
15		23 55.4	3.5	+ 9 39	18	0.651
23		23 51.9		+ 9 21		0.656

(**616**) Elly 12.7 1910

1914		α		δ		log Δ
Sept. 13		0 22.3	8.2	+ 4 30	1	0.205
21		0 14.1	8.6	+ 4 31	— 2	0.198
29	25	0 5.5	8.4	+ 4 29	6	0.195
Okt. 7		23 57.1	7.6	+ 4 23	5	0.200
15		23 49.5	6.2	+ 4 18	1	0.208
23		23 43.3		+ 4 17		0.219

(**97**) Klotho 9.6 1913

1914		α		δ		log Δ
Sept. 13		0 19.7	5.3	− 4 20	95	0.109
21		0 14.4	5.9	− 5 55	94	0.099
29	26	0 8.5	5.6	− 7 29	88	0.094
Okt. 7		0 2.9	5.0	− 8 57	73	0.095
15		23 57.9	3.6	−10 10	57	0.101
23		23 54.3		−11 7		0.113

(**555**) Norma 14.2 1911

1914		α		δ		log Δ
Sept. 13		0 23.4	5.4	− 0 35	39	0.379
21		0 18.0	5.7	− 1 14	40	0.374
29	27	0 12.3	5.6	− 1 54	39	0.372
Okt. 7		0 6.7	5.2	− 2 33	34	0.374
15		0 1.5	4.6	− 3 7	28	0.379
23		23 56.9		− 3 35		0.387

(**238**) Hypatia 11.2 1913

1914		α		δ		log Δ
Sept. 13		0h 24m.1	5.2	+ 4° 1′	75	0.230
21		0 18.9	5.4	+ 2 46	78	0.224
29	27	0 13.5	5.4	+ 1 28	76	0.222
Okt. 7		0 8.1	4.8	+ 0 12	72	0.226
15		0 3.3	3.8	− 1 0	63	0.233
23		23 59.5		− 2 3		0.244

(**588**) Achilles 14.1 1913

1914		α		δ		log Δ
Sept. 13		0 26.5	4.1	+13 49	15	0.599
21		0 22.4	4.3	+13 34	18	0.595
29	28	0 18.1	4.1	+13 16	21	0.592
Okt. 7		0 14.0	4.0	+12 55	23	0.592
15		0 10.0	3.6	+12 32	24	0.293
23		0 6.4		+12 8		0.597

(**500**) Selinur 11.2 1912

1914		α		δ		log Δ
Sept. 13		0 35.6	6.3	+21 30	2	0.120
21		0 29.3	7.2	+21 28	20	0.111
29	29	0 22.1	7.1	+21 8	37	0.105
Okt. 7		0 15.0	6.5	+20 31	49	0.105
15		0 8.5	5.2	+19 42	56	0.111
23		0 3.3		+18 46		0.121

(**693**) Zerbinetta 12.8 1912

1914		α		δ		log Δ
Sept. 13		0 37.7	7.1	+ 9 5	4	0.296
21		0 30.6	7.3	+ 9 1	8	0.290
29	29	0 23.3	7.4	+ 8 53	12	0.288
Okt. 7		0 15.9	6.8	+ 8 41	14	0.290
15		0 9.1	6.0	+ 8 27	13	0.295
23		0 3.1		+ 8 14		0.305

(**34**) Circe 11.9 1913

1914		α		δ		log Δ
Sept. 21		0 35.4	6.2	+ 3 43	55	0.284
29		0 29.2	6.3	+ 2 48	55	0.280
Okt. 7	1	0 22.9	6.0	+ 1 53	52	0.281
15		0 16.9	5.2	+ 1 1	47	0.286
23		0 11.7	4.3	+ 0 14	39	0.294
31		0 7.4		− 0 25		0.306

(**35**) Leukothea 13.2 1912

1914		α		δ		log Δ
Sept. 21		0 37.0	6.3	+ 6 35	26	0.420
29		0 30.7	6.4	+ 6 9	28	0.419
Okt. 7	1	0 24.3	6.0	+ 5 41	28	0.421
15		0 18.3	5.2	+ 5 13	26	0.425
23		0 13.1	4.4	+ 4 47	23	0.433
31		0 8.7		+ 4 24		0.444

(712) [1911 *LO*] 10.5 1912

1914		α		δ		log Δ
Sept. 21		0h 36m.5	5.6	+20° 25′	64	0.112
29		0 30.9	5.8	+19 21	81	0.100
Okt. 7	1	0 25.1	5.7	+18 0	94	0.094
15		0 19.4	4.6	+16 26	99	0.093
23		0 14.8	3.0	+14 47	98	0.098
31		0 11.8		+13 9		0.108

(51) Nemausa 10.2 1913

1914		α		δ		log Δ
Sept. 21		0 40.0	6.5	+ 1 28	79	0.185
29		0 33.5	6.8	+ 0 9	76	0.182
Okt. 7	2	0 26.7	6.3	− 1 7	71	0.184
15		0 20.4	5.4	− 2 18	61	0.191
23		0 15.0	4.1	− 3 19	48	0.202
31		0 10.9		− 4 7		0.217

(82) Alkmene* 11.7 1912

1914		α		δ		log Δ
Sept. 21		0 45.8	6.6	+ 3 26	36	0.310
29		0 39.2	6.8	+ 2 50	37	0.303
Okt. 7	3	0 32.4	6.7	+ 2 13	36	0.301
15		0 25.7	6.2	+ 1 37	33	0.302
23		0 19.5	5.0	+ 1 4	26	0.307
31		0 14.5		+ 0 38		0.316

(137) Meliboea 11.0 1912

1914		α		δ		log Δ
Sept. 21		0 45.7	5.3	+11 1	74	0.227
29		0 40.4	5.5	+ 9 47	79	0.224
Okt. 7	3	0 34.9	5.1	+ 8 28	79	0.228
15		0 29.8	4.3	+ 7 9	74	0.236
23		0 25.5	3.2	+ 5 55	69	0.248
31		0 22.3		+ 4 46		0.264

(316) Goberta 12.9 1911

1914		α		δ		log Δ
Sept. 21		0 46.4	5.6	+ 1 39	40	0.303
29		0 40.8	5.8	+ 0 59	40	0.298
Okt. 7	3	0 35.0	5.7	+ 0 19	37	0.297
15		0 29.3	5.2	− 0 18	31	0.300
23		0 24.1	4.1	− 0 49	24	0.306
31		0 20.0		− 1 13		0.316

(438) Zeuxo 11.9 1912

1914		α		δ		log Δ
Sept. 21		1 0.3	7.0	− 2 8	30	0.210
29		0 53.3	7.4	− 2 38	28	0.208
Okt. 7	6	0 45.9	7.4	− 3 6	22	0.209
15		0 38.5	6.6	− 3 28	13	0.215
23		0 31.9	5.5	− 3 41	2	0.226
31		0 26.4		− 3 43		0.241

(381) Myrrha 12.4 1913

1914		α		δ		log Δ
Sept. 21		0h 58m.0	5.5	−10° 56′	53	0.349
29		0 52.5	5.6	−11 49	44	0.349
Okt. 7	6	0 46.9	5.6	−12 33	34	0.353
15		0 41.3	5.0	−13 7	23	0.360
23		0 36.3	4.1	−13 30	9	0.370
31		0 32.2		−13 39		0.383

(542) Susanna 11.9 1911

1914		α		δ		log Δ
Sept. 21		0 58.1	4.9	− 5 28	79	0.179
29		0 53.2	5.8	− 6 47	73	0.177
Okt. 7	6	0 47.4	5.5	− 8 0	63	0.178
15		0 41.9	4.8	− 9 3	48	0.184
23		0 37.1	3.8	− 9 51	30	0.195
31		0 33.3		−10 21		0.210

(729) [1912 *OD*] 13.4 1913

1914		α		δ		log Δ
Sept. 21		1 0.3	6.0	−18 25	62	0.319
29		0 54.3	6.3	−19 27	50	0.319
Okt. 7	6	0 48.0	6.2	−20 17	36	0.323
15		0 41.8	5.7	−20 53	19	0.330
23		0 36.1	4.6	−21 12	3	0.341
31		0 31.5		−21 15		0.354

(256) Walpurga 13.5 1913

1914		α		δ		log Δ
Sept. 21		1 0.4	5.1	+ 4 8	64	0.336
29		0 55.3	5.6	+ 3 4	66	0.331
Okt. 7	7	0 49.7	5.5	+ 1 58	63	0.331
15		0 44.2	5.1	+ 0 55	58	0.335
23		0 39.1	4.3	− 0 3	50	0.342
31		0 34.8		− 0 53		0.353

(306) Unitas 10.2 1913

1914		α		δ		log Δ
Sept. 21		1 5.1	6.5	− 3 19	72	0.069
29		0 58.6	6.9	− 4 31	66	0.065
Okt. 7	7	0 51.7	6.7	− 5 37	54	0.070
15		0 45.0	5.8	− 6 31	39	0.081
23		0 39.2	4.4	− 7 10	20	0.097
31		0 34.8		− 7 30		0.117

(229) Adelinda 12.8 1912

1914		α		δ		log Δ
Sept. 29		0 59.9	5.7	+ 5 18	31	0.306
Okt. 7	8	0 54.2	5.8	+ 4 47	30	0.305
15		0 48.4	5.3	+ 4 17	29	0.309
23		0 43.1	4.7	+ 3 48	23	0.316
31		0 38.4	3.6	+ 3 25	16	0.327
Nov. 8		0 34.8		+ 3 9		0.341

(264) Libussa 11.3 1912

1914	α		δ		log Δ
Sept. 29	$1^h\ 2.1^m$	7.3	−5° 56′	14	0.161
Okt. 7	0 54.8	7.5	−6 10	5	0.160
15	[8] 0 47.3	6.8	−6 15	$\overline{6}$	0.164
23	0 40.5	5.6	−6 9	18	0.173
31	0 34.9	4.0	−5 51	29	0.185
Nov. 8	0 30.9		−5 22		0.202

(163) Erigone 11.2 1909

1914	α		δ		log Δ
Sept. 29	1 4.7	7.0	+2 0	61	0.096
Okt. 7	0 57.7	7.2	+0 59	64	0.088
15	[8] 0 50.5	6.7	−0 5	57	0.086
23	0 43.8	5.7	−1 2	45	0.089
31	0 38.1	4.3	−1 47	32	0.098
Nov. 8	0 33.8		−2 19		0.111

(541) Deborah 13.1 1912

1914	α		δ		log Δ
Sept. 29	1 7.0	6.2	+16 25	38	0.279
Okt. 7	[9] 1 0.8	6.5	+15 47	45	0.275
15	0 54.3	6.1	+15 2	49	0.275
23	0 48.2	5.4	+14 13	50	0.281
31	0 42.8	4.6	+13 23	50	0.290
Nov. 8	0 38.2		+12 33		0.300

(696) Leonora 11.8 1910

1914	α		δ		log Δ
Sept. 29	1 8.4	6.8	+29 19	1	0.184
Okt. 7	[9] 1 1.6	6.7	+29 18	20	0.175
15	0 54.9	6.5	+28 58	34	0.171
23	0 48.4	5.6	+28 24	47	0.172
31	0 42.8	4.2	+27 37	58	0.177
Nov. 8	0 38.6		+26 39		0.186

(326) Tamara 11.2 1913

1914	α		δ		log Δ
Sept. 29	1 14.1	11.3	−10 4	27	0.124
Okt. 7	[9] 1 2.8	11.0	−9 37	38	0.128
15	0 51.8	10.1	−8 59	49	0.137
23	0 41.7	8.5	−8 10	60	0.152
31	0 33.2	6.3	−7 10	70	0.171
Nov. 8	0 26.9		−6 0		0.193

(514) Armida 12.1 1912

1914	α		δ		log Δ
Sept. 29	1 7.5	5.9	+13 16	36	0.286
Okt. 7	[9] 1 1.6	6.1	+12 40	41	0.282
15	0 55.5	5.8	+11 59	44	0.283
23	0 49.7	5.1	+11 15	42	0.287
31	0 44.6	4.0	+10 33	38	0.296
Nov. 8	0 40.6		+9 55		0.307

(380) Fiducia 12.0 1913

1914	α		δ		log Δ
Sept. 29	$1^h\ 16.2^m$	6.7	−3° 6′	40	0.161
Okt. 7	1 9.5	6.8	−3 46	33	0.160
15	[11] 1 2.7	6.4	−4 19	23	0.165
23	0 56.3	5.5	−4 42	11	0.174
31	0 50.8	4.3	−4 53	$\overline{2}$	0.188
Nov. 8	0 46.5		−4 51		0.205

(635) Vundtia 12.2 1913

1914	α		δ		log Δ
Sept. 29	1 16.1	5.2	+4 45	64	0.282
Okt. 7	[12] 1 10.9	5.4	+3 41	65	0.279
15	1 5.5	5.3	+2 36	60	0.279
23	1 0.2	4.7	+1 36	52	0.284
31	0 55.5	3.8	+0 44	43	0.292
Nov. 8	0 51.7		+0 1		0.304

(322) Phaeo 10.7 1911

1914	α		δ		log Δ
Sept. 29	1 20.6	5.5	+21 47	44	0.062
Okt. 7	[12] 1 15.1	5.9	+21 3	60	0.055
15	1 9.2	5.5	+20 3	69	0.054
23	1 3.7	4.6	+18 54	75	0.058
31	0 59.1	3.2	+17 39	74	0.068
Nov. 8	0 55.9		+16 25		0.084

(682) Hagar 14.4 1909

1914	α		δ		log Δ
Sept. 29	1 26.9	6.1	+7 29	78	0.192
Okt. 7	[14] 1 20.8	6.3	+6 11	79	0.191
15	1 14.5	6.1	+4 52	74	0.194
23	1 8.4	5.4	+3 38	66	0.203
31	1 3.0	4.2	+2 32	54	0.216
Nov. 8	0 58.8		+1 38		0.232

(199) Byblis 12.6 1907

1914	α		δ		log Δ
Sept. 29	1 31.2	6.1	−13 32	33	0.368
Okt. 7	[15] 1 25.1	6.4	−14 5	24	0.369
15	1 18.7	6.2	−14 29	11	0.373
23	1 12.5	5.7	−14 40	$\overline{1}$	0.380
31	1 6.8	4.8	−14 39	12	0.391
Nov. 8	1 2.0		−14 27		0.404

(569) Misa 11.7 1912

1914	α		δ		log Δ
Sept. 29	1 34.5	6.4	+12 7	32	0.148
Okt. 7	[15] 1 28.1	6.8	+11 35	38	0.136
15	1 21.3	7.1	+10 57	41	0.129
23	1 14.2	6.5	+10 16	41	0.127
31	1 7.7	5.4	+9 35	36	0.131
Nov. 8	1 2.3		+8 59		0.140

(660) Crescentia 10.8 1913

1914		α (h m)		δ		log Δ
Sept. 29		1 34.5	6.0	− 6° 21′	82	0.216
Okt. 7	15	1 28.5	6.5	− 7 43	73	0.215
15		1 22.0	6.4	− 8 56	60	0.219
23		1 15.6	5.7	− 9 56	43	0.227
31		1 9.9	4.5	−10 39	25	0.239
Nov. 8		1 5.4		−11 4		0.255

(365) Corduba 11.3 1913

1914		α		δ		log Δ
Okt. 7		1 28.8	5.6	+ 4 4	88	0.143
15	16	1 23.2	5.6	+ 2 36	83	0.140
23		1 17.6	5.1	+ 1 13	74	0.143
31		1 12.5	4.1	− 0 1	62	0.151
Nov. 8		1 8.4	2.4	− 1 3	46	0.164
16		1 6.0		− 1 49		0.182

(592) Bathseba 12.2 1913

1914		α		δ		log Δ
Okt. 7		1 32.0	5.7	+ 1 7	64	0.238
15	16	1 26.3	5.6	+ 0 3	59	0.235
23		1 20.7	5.3	− 0 56	49	0.238
31		1 15.4	4.5	− 1 45	37	0.244
Nov. 8		1 10.9	3.1	− 2 22	27	0.254
16		1 7.8		− 2 49		0.268

(298) Baptistina 13.8 1907

1914		α		δ		log Δ
Okt. 7		1 42.3	8.6	+13 26	19	0.137
15	18	1 33.7	8.8	+13 7	26	0.130
23		1 24.9	8.3	+12 41	28	0.128
31		1 16.6	7.3	+12 13	25	0.132
Nov. 8		1 9.3	5.8	+11 48	21	0.141
16		1 3.5		+11 27		0.155

(565) Marbachia 13.3 1912

1914		α		δ		log Δ
Okt. 7		1 43.7	6.8	+17 41	65	0.219
15	18	1 36.9	7.1	+16 36	73	0.212
23		1 29.8	6.8	+15 23	76	0.209
31		1 23.0	6.1	+14 7	75	0.211
Nov. 8		1 16.9	4.5	+12 52	69	0.215
16		1 12.4		+11 43		0.220

(474) Prudentia 12.2 1913

1914		α		δ		log Δ
Okt. 7		1 46.1	6.4	+ 0 22	75	0.067
15	19	1 39.7	6.8	− 0 53	64	0.071
23		1 32.9	6.1	− 1 57	50	0.080
31		1 26.8	5.0	− 2 47	33	0.095
Nov. 8		1 21.8	3.4	− 3 20	15	0.115
16		1 18.4		− 3 35		0.138

(143) Adria 12.8 1909

1914		α (h m)		δ		log Δ
Okt. 7		1 48.2	7.5	+25° 50′	11	0.305
15	19	1 40.7	7.6	+25 39	22	0.299
23		1 33.1	7.6	+25 17	31	0.297
31		1 25.5	6.7	+24 46	37	0.300
Nov. 8		1 18.8	5.5	+24 9	39	0.306
16		1 13.3		+23 30		0.315

(27) Euterpe 10.1 1912

1914		α		δ		log Δ
Okt. 7		1 48.3	7.1	+ 8 10	41	0.064
15	20	1 41.2	7.6	+ 7 29	41	0.055
23		1 33.6	7.3	+ 6 48	37	0.049
31		1 26.3	6.5	+ 6 11	32	0.050
Nov. 8		1 19.8	4.9	+ 5 39	20	0.057
16		1 14.9		+ 5 19		0.068

(749) [1913 *RF*] 14.8 1913

1914		α		δ		log Δ
Okt. 7		1 54.9	7.8	+ 2 26	47	0.195
15	20	1 47.1	8.1	+ 1 39	43	0.193
23		1 39.0	7.7	+ 0 56	34	0.197
31		1 31.3	6.8	+ 0 22	24	0.205
Nov. 8		1 24.5	5.6	− 0 2	10	0.218
16		1 18.9		− 0 12		0.235

(153) Hilda 12.9 1913

1914		α		δ		log Δ
Okt. 7		1 54.1	5.0	+15 36	34	0.487
15	21	1 49.1	5.1	+15 2	37	0.484
23		1 44.0	4.9	+14 25	39	0.485
31		1 39.1	4.5	+13 46	38	0.488
Nov. 8		1 34.6	3.9	+13 8	36	0.494
16		1 30.7		+12 32		0.503

(129) Antigone 11.0 1913

1914		α		δ		log Δ
Okt. 7		1 59.0	5.8	− 4 29	50	0.367
15	22	1 53.2	6.2	− 5 19	41	0.365
23		1 47.0	6.1	− 6 0	32	0.368
31		1 40.9	5.6	− 6 32	21	0.375
Nov. 8		1 35.3	4.6	− 6 53	10	0.385
16		1 30.7		− 7 3		0.398

(367) Amicitia 12.6 1911

1914		α		δ		log Δ
Okt. 15		2 16.5	8.0	+ 9 13	37	0.108
23	27	2 8.5	8.5	+ 8 36	38	0.101
31		2 0.0	8.1	+ 7 58	31	0.100
Nov. 8		1 51.9	7.0	+ 7 27	24	0.105
16		1 44.9	5.2	+ 7 3	12	0.115
24		1 39.7		+ 6 51		0.129

(411) Xanthe 12.6 1913

1914	α		δ		log Δ
Okt. 15	2h 15.9m	6.6	−10° 29′	32	0.304
23	(27) 2 9.3	6.7	−11 1	17	0.303
31	2 2.6	6.3	−11 18	2	0.310
Nov. 8	1 56.3	5.4	−11 20	— 11	0.319
16	1 50.9	4.4	−11 9	25	0.330
24	1 46.5		−10 44		0.345

(376) Geometria 12.4 1913

1914	α		δ		log Δ
Okt. 15	2 19.6	8.4	+23 10	35	0.198
23	(27) 2 11.2	8.6	+22 35	44	0.195
31	2 2.6	8.1	+21 51	50	0.197
Nov. 8	1 54.5	7.1	+21 1	53	0.203
16	1 47.4	5.5	+20 8	50	0.215
24	1 41.9		+19 18		0.230

(731) [1912 *OQ*] 12.3 1912

1914	α		δ		log Δ
Okt. 15	2 19.8	7.3	+ 8 49	8	0.249
23	(27) 2 12.5	7.4	+ 8 41	6	0.247
31	2 5.1	7.0	+ 8 35	4	0.251
Nov. 8	1 58.1	6.2	+ 8 31	—	0.258
16	1 51.9	5.0	+ 8 31	7	0.270
24	1 46.9		+ 8 38		0.285

(486) Cremona 14.4 1902

1914	α		δ		log Δ
Okt. 15	2 21.8	7.7	− 2 37	32	0.249
23	(28) 2 14.1	8.0	− 3 9	24	0.247
31	2 6.1	7.6	− 3 33	13	0.250
Nov. 8	1 58.5	6.8	− 3 46	1	0.257
16	1 51.7	5.6	− 3 47	— 13	0.268
24	1 46.1		− 3 34		0.283

(215) Oenone 12.6 1912

1914	α		δ		log Δ
Okt. 15	2 25.5	6.8	+14 46	27	0.240
23	(29) 2 18.7	7.2	+14 19	31	0.235
31	2 11.5	6.8	+13 48	31	0.235
Nov. 8	2 4.7	6.2	+13 17	29	0.239
16	1 58.5	5.1	+12 48	21	0.248
24	1 53.4		+12 27		0.261

(204) Kallisto 12.5 1913

1914	α		δ		log Δ
Okt. 15	2 25.1	6.5	+12 47	51	0.297
23	(29) 2 18.6	6.8	+11 56	51	0.295
31	2 11.8	6.6	+11 5	52	0.297
Nov. 8	2 5.2	5.9	+10 13	48	0.303
16	1 59.3	4.8	+ 9 25	40	0.313
24	1 54.5		+ 8 45		0.325

(101) Helena 10.4 1912

1914	α		δ		log Δ
Okt. 15	2h 36.4m	8.5	+29° 11′	6	0.166
23	(30) 2 27.9	9.2	+29 17	— 15	0.164
31	2 18.7	8.8	+29 2	26	0.165
Nov. 8	2 9.9	7.7	+28 36	33	0.169
16	2 2.2	6.3	+28 3	38	0.178
24	1 55.9		+27 25		0.192

(399) Persephone 13.3 1909

1914	α		δ		log Δ
Okt. 15	2 34.8	6.9	+30 30	1	0.359
23	(31) 2 27.9	7.5	+30 31	— 9	0.352
31	2 20.4	7.6	+30 22	19	0.348
Nov. 8	2 12.8	7.1	+30 3	28	0.347
16	2 5.7	6.2	+29 35	33	0.350
24	1 59.5		+29 2		0.357

(309) Fraternitas 12.4 1891

1914	α		δ		log Δ
Okt. 23	2 31.9	7.6	+19 13	25	0.188
31	(31) 2 24.3	7.8	+18 48	29	0.187
Nov. 8	2 16.5	6.9	+18 19	30	0.191
16	2 9.6	5.8	+17 49	28	0.200
24	2 3.8	4.1	+17 21	23	0.213
Dez. 2	1 59.7		+16 58		0.229

(595) Polyxena 12.2 1911

1914	α		δ		log Δ
Okt. 23	2 34.7	7.5	+22 8	4	0.361
31	(1) 2 27.2	7.7	+22 12	— 1	0.359
Nov. 8	2 19.5	7.2	+22 11	6	0.361
16	2 12.3	6.5	+22 5	7	0.366
24	2 5.8	5.3	+21 58	10	0.375
Dez. 2	2 0.5		+21 48		0.387

(171) Ophelia 12.3 1911

1914	α		δ		log Δ
Okt. 23	2 33.7	6.3	+11 38	29	0.358
31	(1) 2 27.4	6.2	+11 9	28	0.355
Nov. 8	2 21.2	6.0	+10 41	26	0.356
16	2 15.2	5.3	+10 15	22	0.360
24	2 9.9	4.2	+ 9 53	14	0.367
Dez. 2	2 5.7		+ 9 39		0.376

(361) Bononia 12.5 1909

1914	α		δ		log Δ
Okt. 23	2 35.7	6.4	+21 45	1	0.377
31	(2) 2 29.3	6.6	+21 44	6	0.373
Nov. 8	2 22.7	6.2	+21 38	9	0.371
16	2 16.5	5.7	+21 29	10	0.373
24	2 10.8	4.6	+21 19	11	0.379
Dez. 2	2 6.2		+21 8		0.387

(96) Aegle 11.7 1913

1914	α		δ		log Δ
Okt. 23	2h 37m.5	7.6	+38° 54′	10	0.364
31	2 29.9	8.1	+38 44	24	0.358
Nov. 8	[2] 2 21.8	7.7	+38 20	35	0.355
16	2 14.1	6.9	+37 45	46	0.355
24	2 7.2	5.7	+36 59	54	0.358
Dez. 2	2 1.5		+36 5		0.365

(578) Happelia 12.2 1912

1914	α		δ		log Δ
Okt. 23	2 43.4	7.6	+17 18	20	0.270
31	2 35.8	7.7	+16 58	21	0.270
Nov. 8	[3] 2 28.1	7.2	+16 37	22	0.274
16	2 20.9	6.3	+16 15	19	0.283
24	2 14.6	5.0	+15 56	16	0.296
Dez. 2	2 9.6		+15 40		0.311

(489) Comacina 12.6 1913

1914	α		δ		log Δ
Okt. 23	2 43.5	5.6	+ 1 15	48	0.358
31	2 37.9	5.8	+ 0 27	42	0.356
Nov. 8	[2] 2 32.1	5.6	— 0 15	34	0.358
16	2 26.5	5.0	— 0 49	23	0.364
24	2 21.5	4.1	— 1 12	11	0.372
Dez. 2	2 17.4		— 1 23		0.384

(669) Kypria 14.0 1912

1914	α		δ		log Δ
Okt. 23	2 48.0	5.9	+ 4 16	48	0.346
31	2 42.1	6.2	+ 3 28	42	0.346
Nov. 8	[4] 2 35.9	5.8	+ 2 46	34	0.348
16	2 30.1	5.2	+ 2 12	25	0.355
24	2 24.9	4.2	+ 1 47	14	0.365
Dez. 2	2 20.7		+ 1 33		0.377

(213) Lilaea 12.0 1913

1914	α		δ		log Δ
Okt. 23	2 54.9	6.9	+ 6 4	33	0.283
31	2 48.0	6.9	+ 5 31	28	0.282
Nov. 8	[5] 2 41.1	6.8	+ 5 3	22	0.284
16	2 34.3	6.0	+ 4 41	13	0.293
24	2 28.3	5.0	+ 4 28	4	0.304
Dez. 2	2 23.3		+ 4 24		0.318

(671) Carnegia 12.7 1908

1914	α		δ		log Δ
Okt. 23	2 55.4	7.0	+24 43	7	0.292
31	2 48.4	7.3	+24 36	13	0.286
Nov. 8	[5] 2 41.1	7.1	+24 23	19	0.284
16	2 34.0	6.5	+24 4	23	0.285
24	2 27.5	5.4	+23 41	26	0.291
Dez. 2	2 22.1		+23 15		0.300

(387) Aquitania 10.1 1913

1914	α		δ		log Δ
Okt. 23	2h 56m.7	7.0	—11° 27′	36	0.286
31	2 49.7	7.2	—12 3	20	0.289
Nov. 8	[6] 2 42.5	6.7	—12 23	3	0.296
16	2 35.8	6.0	—12 26	13	0.306
24	2 29.8	4.9	—12 13	27	0.320
Dez. 2	2 24.9		—11 46		0.336

(152) Atala 11.9 1911

1914	α		δ		log Δ
Okt. 23	3 1.4	6.9	+17 25	1	0.302
31	2 54.5	7.4	+17 24	1	0.296
Nov. 8	[7] 2 47.1	7.4	+17 23	1	0.294
16	2 39.7	6.7	+17 22	2	0.296
24	2 33.0	6.0	+17 20	0	0.302
Dez. 2	2 27.0		+17 20		0.312

(182) Elsa 9.7 1912

1914	α		δ		log Δ
Okt. 23	3 2.1	6.5	+13 4	27	0.002
31	2 55.6	7.4	+12 37	27	9.993
Nov. 8	[7] 2 48.2	7.3	+12 10	24	9.990
16	2 40.9	6.4	+11 46	16	9.995
24	2 34.5	4.6	+11 30	6	0.005
Dez. 2	2 29.9		+11 24		0.022

(561) Ingwelde 13.4 1905

1914	α		δ		log Δ
Okt. 23	3 4.3	5.8	+15 17	28	0.287
31	2 58.5	6.3	+14 49	30	0.280
Nov. 8	[8] 2 52.2	6.3	+14 19	30	0.276
16	2 45.9	6.0	+13 49	27	0.277
24	2 39.9	5.3	+13 22	24	0.281
Dez. 2	2 34.6		+12 58		0.290

(709) [1911 *LK*] 12.0 1911

1914	α		δ		log Δ
Okt. 23	3 10.8	8.1	+42 45	8	0.276
31	[8] 3 2.7	9.0	+42 53	14	0.270
Nov. 8	2 53.7	9.0	+42 39	32	0.268
16	2 44.7	8.0	+42 7	45	0.269
24	2 36.7	6.5	+41 22	56	0.273
Dez. 2	2 30.2		+40 26		0.282

(481) Emita 10.6 1912

1914	α		δ		log Δ
Okt. 31	3 5.1	8.0	+ 9 58	5	0.123
Nov. 8	[9] 2 57.1	7.9	+10 3	10	0.120
16	2 49.2	7.2	+10 13	16	0.123
24	2 42.0	6.0	+10 29	23	0.131
Dez. 2	2 36.0	4.4	+10 52	30	0.145
10	2 31.6		+11 22		0.162

(513) Centesima 11.8 1913

1914	α		δ		log Δ
Okt. 31	3h 4.2m	6.1	+ 8° 3′	51	0.250
Nov. 8	$_{9}$2 58.1	6.1	+ 7 12	45	0.249
16	2 52.0	5.6	+ 6 27	37	0.253
24	2 46.4	4.8	+ 5 50	26	0.260
Dez. 2	2 41.6	3.7	+ 5 24	11	0.272
10	2 37.9		+ 5 13		0.287

(590) Tomyris 12.8 1911

1914	α		δ		log Δ
Okt. 31	3 10.7	6.4	+ 1 52	18	0.271
Nov. 8	$_{10}$3 4.3	6.9	+ 1 34	10	0.270
16	2 57.4	6.6	+ 1 24	—	0.272
24	2 50.8	5.8	+ 1 24	11	0.278
Dez. 2	2 45.0	3.9	+ 1 35	25	0.286
10	2 41.1		+ 2 0		0.301

(753) [1913 *RM*] 14.3 1913

1914	α		δ		log Δ
Okt. 31	3 16.5	9.0	+13 43	11	0.235
Nov. 8	$_{11}$3 7.5	8.9	+13 32	9	0.234
16	2 58.6	8.3	+13 23	7	0.239
24	2 50.3	7.3	+13 16	3 —	0.248
Dez. 2	2 43.0	5.9	+13 13	3	0.261
10	2 37.1		+13 16		0.278

(472) Roma 11.0 1913

1914	α		δ		log Δ
Okt. 31	3 17.7	7.2	− 9 53	28	0.140
Nov. 8	$_{11}$3 10.5	7.4	−10 21	8 —	0.139
16	3 3.1	6.8	−10 29	14	0.143
24	2 56.3	5.9	−10 15	35	0.151
Dez. 2	2 50.4	4.4	− 9 40	54	0.163
10	2 46.0		− 8 46		0.178

(224) Oceana 11.9 1913

1914	α		δ		log Δ
Okt. 31	3 21.3	7.9	+26 9	14	0.247
Nov. 8	$_{12}$3 13.4	8.1	+25 55	21	0.243
16	3 5.3	7.8	+25 34	27	0.243
24	2 57.5	7.0	+25 7	30	0.247
Dez. 2	2 50.5	5.5	+24 37	31	0.256
10	2 45.0		+24 6		0.269

(619) Triberga 11.8 1913

1914	α		δ		log Δ
Okt. 31	3 22.2	6.9	+ 4 2	76	0.150
Nov. 8	$_{12}$3 15.3	6.9	+ 2 46	65	0.149
16	3 8.4	6.5	+ 1 41	50	0.152
24	3 1.9	5.6	+ 0 51	33	0.161
Dez. 2	2 56.3	4.2	+ 0 18	17	0.173
10	2 52.1		+ 0 1		0.194

(126) Velleda 11.2 1912

1914	α		δ		log Δ
Okt. 31	3h 24.2m	8.1	+20° 45′	17	0.118
Nov. 8	$_{12}$3 16.1	8.5	+20 28	22	0.116
16	3 7.6	8.1	+20 6	23	0.118
24	2 59.5	6.8	+19 43	23	0.126
Dez. 2	2 52.7	5.1	+19 20	19	0.140
10	2 47.6		+19 1		0.157

(551) Ortrud 12.2 1912

1914	α		δ		log Δ
Okt. 31	3 26.8	6.8	+19 14	23	0.220
Nov. 8	$_{13}$3 20.0	7.1	+18 51	25	0.214
16	3 12.9	6.8	+18 26	27	0.213
24	3 6.1	6.1	+17 59	25	0.216
Dez. 2	3 0.0	5.0	+17 34	22	0.224
10	2 55.0		+17 12		0.236

(384) Burdigala 10.9 1912

1914	α		δ		log Δ
Okt. 31	3 30.7	7.6	+18 54	1	0.129
Nov. 8	$_{14}$3 23.1	8.0	+18 53	5	0.120
16	3 15.1	8.0	+18 48	6	0.117
24	3 7.1	7.0	+18 42	5	0.120
Dez. 2	3 0.1	5.6	+18 37	3	0.128
10	2 54.5		+18 34		0.141

(226) Weringia 13.5 1913

1914	α		δ		log Δ
Okt. 31	3 33.9	6.8	− 5 8	32	0.296
Nov. 8	$_{15}$3 27.1	7.2	− 5 40	20	0.295
16	3 19.9	6.9	− 6 0	6 —	0.300
24	3 13.0	6.2	− 6 6	9	0.308
Dez. 2	3 6.8	5.1	− 5 57	22	0.320
10	3 1.7		− 5 35		0.334

(659) Nestor 14.4 1909 (1911)

1914	α		δ		log Δ
Okt. 31	3 30.6	4.3	+24 6	11	0.625
Nov. 8	$_{15}$3 26.3	4.6	+23 55	14	0.623
16	3 21.7	4.7	+23 41	16	0.623
24	3 17.0	4.3	+23 25	17	0.625
Dez. 2	3 12.7	3.7	+23 8	17	0.628
10	3 9.0		+22 51		0.634

(491) Carina 12.2 1913

1914	α		δ		log Δ
Okt. 31	3 34.6	5.3	− 3 4	60	0.315
Nov. 8	$_{15}$3 29.3	6.0	− 4 4	48	0.312
16	3 23.3	5.8	− 4 52	35	0.314
24	3 17.5	5.2	− 5 27	21	0.319
Dez. 2	3 12.3	4.4	− 5 48	7	0.328
10	3 7.9		− 5 55		0.339

(42) Isis 10.2 1913

1914	α (h m)		δ		log Δ
Okt. 31	3 45.5	8.5	+11° 4′	5	0.134
Nov. 8	(18) 3 37.0	8.9	+10 59	2	0.132
16	3 28.1	8.6	+10 57	— 3	0.137
24	3 19.5	7.7	+11 0	9	0.147
Dez. 2	3 11.8	6.2	+11 9	15	0.162
10	3 5.6		+11 24		0.181

(424) Gratia 12.1 1912

1914	α		δ		log Δ
Nov. 8	3 47.6	7.3	+ 9 40	3	0.177
16	(19) 3 40.3	7.6	+ 9 37	1	0.174
24	3 32.7	7.0	+ 9 36	— 5	0.175
Dez. 2	3 25.7	6.2	+ 9 41	13	0.182
10	3 19.5	4.8	+ 9 54	22	0.193
18	3 14.7		+10 16		0.208

(307) Nike 12.3 1912

1914	α		δ		log Δ
Nov. 8	3 48.2	7.1	+12 15	12	0.182
16	(19) 3 41.1	7.1	+12 3	7	0.178
24	3 34.0	6.8	+11 56	1	0.180
Dez. 2	3 27.2	6.4	+11 55	— 3	0.186
10	3 20.8	5.6	+11 58	7	0.197
18	3 15.2		+12 5		0.215

(633) Zelima 13.0 1909

1914	α		δ		log Δ
Nov. 8	3 51.7	6.5	+ 3 42	28	0.304
16	(20) 3 45.2	6.6	+ 3 14	19	0.304
24	3 38.6	6.2	+ 2 55	9	0.307
Dez. 2	3 32.4	5.5	+ 2 46	— 1	0.314
10	3 26.9	4.4	+ 2 47	11	0.325
18	3 22.5		+ 2 58		0.339

(390) Alma 13.0 1913

1914	α		δ		log Δ
Nov. 8	4 0.5	8.4	+38 52	17	0.206
16	(21) 3 52.1	9.0	+38 35	34	0.196
24	3 43.1	8.7	+38 1	49	0.191
Dez. 2	3 34.4	7.7	+37 12	60	0.190
10	3 26.7	6.0	+36 12	68	0.194
18	3 20.7		+35 4		0.203

(177) Irma 11.2 1906

1914	α		δ		log Δ
Nov. 8	4 5.0	7.2	+23 14	15	0.089
16	(22) 3 57.8	7.7	+22 59	20	0.086
24	3 50.1	7.4	+22 39	23	0.088
Dez. 2	3 42.7	6.2	+22 16	23	0.097
10	3 36.5	4.6	+21 53	19	0.111
18	3 31.9		+21 34		0.129

(59) Elpis 10.4 1913

1914	α (h m)		δ		log Δ
Nov. 8	4 5.4	6.6	+ 7° 50′	41	0.173
16	(22) 3 58.8	7.0	+ 7 9	34	0.170
24	3 51.8	7.0	+ 6 35	24	0.172
Dez. 2	3 44.8	6.1	+ 6 11	12	0.180
10	3 38.7	4.7	+ 5 59	— 1	0.191
18	3 34.0		+ 6 0		0.207

(688) Melanie 13.5 1913

1914	α		δ		log Δ
Nov. 8	4 5.9	7.0	+ 6 33	39	0.255
16	(22) 3 58.9	7.1	+ 5 54	32	0.253
24	3 51.8	6.9	+ 5 22	23	0.256
Dez. 2	3 44.9	6.3	+ 4 59	11	0.264
10	3 38.6	5.0	+ 4 48	0	0.275
18	3 33.6		+ 4 48		0.290

(281) Lucretia 12.2 1906

1914	α		δ		log Δ
Nov. 8	4 10.3	8.6	+25 31	16	9.973
16	(23) 4 1.7	9.6	+25 47	8	9.966
24	3 52.1	9.4	+25 55	—	9.965
Dez. 2	3 42.7	7.8	+25 55	6	9.971
10	3 34.9	5.4	+25 49	9	9.984
18	3 29.5		+25 40		0.003

(710) Gertrud 14.7 1911

1914	α		δ		log Δ
Nov. 8	4 8.3	6.2	+18 34	19	0.405
16	(23) 4 2.1	6.6	+18 15	19	0.400
24	3 55.5	6.6	+17 56	19	0.399
Dez. 2	3 48.9	6.1	+17 37	18	0.402
10	3 42.8	5.1	+17 19	13	0.408
18	3 37.7		+17 6		0.416

(382) Dodona 13.0 1909

1914	α		δ		log Δ
Nov. 8	4 11.5	6.8	+30 58	13	0.431
16	(21) 4 4.7	7.1	+30 45	19	0.425
24	3 57.6	7.1	+30 26	25	0.422
Dez. 2	3 50.5	6.6	+30 1	29	0.422
10	3 43.9	5.8	+29 32	31	0.426
18	3 38.1		+29 1		0.433

(236) Honoria 10.7 1913

1914	α		δ		log Δ
Nov. 8	4 11.5	6.6	+11 28	43	0.177
16	(24) 4 4.9	7.1	+10 45	37	0.176
24	3 57.8	6.9	+10 8	30	0.179
Dez. 2	3 50.9	6.2	+ 9 38	21	0.187
10	3 44.7	4.8	+ 9 17	9	0.200
18	3 39.9		+ 9 8		0.216

(161) Athor 11.2 1912

1914	α		δ		log Δ
Nov. 8	4ʰ 20ᵐ.1	9.3	+31° 15′	13	0.178
16	21 4 10.8	9.9	+31 28	1	0.174
24	4 0.9	9.9	+31 29	— 9	0.174
Dez. 2	3 51.0	9.0	+31 20	18	0.179
10	3 42.0	7.1	+31 2	22	0.189
18	3 34.9		+30 40		0.203

(490) Veritas 12.0 1913

1914	α		δ		log Δ
Nov. 16	4 10.2	6.2	+ 8 57	31	0.306
24	25 4 4.0	6.4	+ 8 26	24	0.306
Dez. 2	3 57.6	5.9	+ 8 2	16	0.310
10	3 51.7	4.9	+ 7 46	8	0.318
18	3 46.8	3.7	+ 7 38	0	0.329
26	3 43.1		+ 7 38		0.342

(272) Antonia 13.4 1890

1914	α		δ		log Δ
Nov. 16	4 12.4	7.9	+23 58	6	0.240
24	25 4 4.5	7.9	+23 52	11	0.236
Dez. 2	3 56.6	7.5	+23 41	13	0.238
10	3 49.1	6.3	+23 28	13	0.244
18	3 42.8	4.8	+23 15	12	0.254
26	3 38.0		+23 3		0.267

(535) Montague 11.8 1912

1914	α		δ		log Δ
Nov. 16	4 19.0	8.0	+16 56	2	0.199
24	26 4 11.0	8.3	+16 54	—	0.195
Dez. 2	4 2.7	7.7	+16 54	2	0.196
10	3 55.0	6.9	+16 56	5	0.202
18	3 48.1	5.3	+17 1	9	0.212
26	3 42.8		+17 10		0.227

(728) [1912 *NU*] 14.2 1912

1914	α		δ		log Δ
Nov. 16	4 30.8	8.6	+19 22	4	0.103
24	28 4 22.2	9.3	+19 18	4	0.095
Dez. 2	4 12.9	8.9	+19 14	4	0.092
10	4 4.0	7.9	+19 10	2	0.096
18	3 56.1	6.0	+19 8	— 4	0.105
26	3 50.1		+19 12		0.119

(295) Theresia 12.5 1912

1914	α		δ		log Δ
Nov. 16	4 30.4	7.1	+24 29	24	0.132
24	29 4 23.3	7.6	+24 5	28	0.126
Dez. 2	4 15.7	7.1	+23 37	29	0.126
10	4 8.6	6.2	+23 8	30	0.132
18	4 2.4	4.5	+22 38	27	0.143
26	3 57.9		+22 11		0.158

(107) Camilla 10.9 1913

1914	α		δ		log Δ
Nov. 16	4ʰ 32ᵐ.1	5.8	+ 8° 56′	26	0.374
24	29 4 26.3	5.9	+ 8 30	22	0.370
Dez. 2	4 20.4	5.8	+ 8 8	15	0.370
10	4 14.6	5.4	+ 7 53	8	0.373
18	4 9.2	4.4	+ 7 45	0	0.380
26	4 4.8		+ 7 45		0.389

(168) Sibylla 11.3 1913

1914	α		δ		log Δ
Nov. 16	4 34.3	6.0	+18 8	23	0.346
24	30 4 28.3	6.4	+17 45	22	0.343
Dez. 2	4 21.9	6.3	+17 23	21	0.344
10	4 15.6	5.7	+17 2	18	0.346
18	4 9.9	4.5	+16 44	15	0.354
26	4 5.4		+16 29		0.365

(87) Sylvia 11.8 1909

1914	α		δ		log Δ
Nov. 16	4 38.7	6.5	+19 38	5	0.392
24	30 4 32.2	6.7	+19 43	5	0.390
Dez. 2	4 25.5	6.6	+19 48	5	0.390
10	4 18.9	6.2	+19 53	6	0.394
18	4 12.7	5.1	+19 59	6	0.401
26	4 7.6		+20 5		0.411

(475) Ocllo 12.6 1908

1914	α		δ		log Δ
Nov. 16	4 54.2	12.2	+39 22	68	0.117
24	1 4 42.0	12.7	+40 30	37	0.120
Dez. 2	4 29.3	12.4	+41 7	15	0.129
10	4 16.9	10.6	+41 22	— 3	0.143
18	4 6.3	8.3	+41 19	16	0.161
26	3 58.0		+41 3		0.183

(630) Euphemia 13.4 1907

1914	α		δ		log Δ
Nov. 16	4 46.7	7.5	+ 7 47	6	0.215
24	2 4 39.2	8.1	+ 7 53	14	0.206
Dez. 2	4 31.1	7.9	+ 8 7	22	0.202
10	4 23.2	7.4	+ 8 29	31	0.203
18	4 15.8	6.7	+ 9 0	40	0.209
26	4 9.1		+ 9 40		0.219

(631) Philippina 12.2 1913

1914	α		δ		log Δ
Nov. 16	4 46.1	6.8	+11 56	72	0.248
24	2 4 39.3	7.2	+10 44	69	0.241
Dez. 2	4 32.1	7.2	+ 9 35	61	0.239
10	4 24.9	6.6	+ 8 34	52	0.241
18	4 18.3	5.3	+ 7 42	38	0.248
26	4 13.0		+ 7 4		0.259

(643) Scheherezade 13.5 1908

1914	α		δ		log Δ
Nov. 16	4ʰ 45ᵐ.4	6.4	+25° 17′	40	0.335
24	[2] 4 39.0	6.8	+24 37	44	0.329
Dez. 2	4 32.2	6.7	+23 53	47	0.327
10	4 25.5	6.0	+23 6	46	0.329
18	4 19.5	5.0	+22 20	43	0.334
26	4 14.5		+21 37		0.342

(350) Ornamenta 11.8 1910

1914	α		δ		log Δ
Nov. 24	4 46.2	8.1	+ 6 0	52	0.229
Dez. 2	[3] 4 38.1	8.3	+ 6 52	61	0.227
10	4 29.8	7.7	+ 7 53	68	0.229
18	4 22.1	6.6	+ 9 1	74	0.236
26	4 15.5	5.3	+10 15	78	0.248
34	4 10.2		+11 33		0.263

(232) Russia 13.9 1912

1914	α		δ		log Δ
Nov. 24	4 50.5	7.8	+13 11	17	0.263
Dez. 2	[4] 4 42.7	7.9	+12 54	12	0.258
10	4 34.8	7.6	+12 42	7	0.258
18	4 27.2	6.6	+12 35	1	0.261
26	4 20.6	5.3	+12 34	—6	0.269
34	4 15.3		+12 40		0.280

(122) Gerda 11.5 1913

1914	α		δ		log Δ
Nov. 24	4 51.0	6.6	+20 20	14	0.367
Dez. 2	[4] 4 44.4	6.8	+20 6	13	0.364
10	4 37.6	6.4	+19 53	13	0.364
18	4 31.2	5.7	+19 40	11	0.368
26	4 25.5	4.6	+19 29	9	0.377
34	4 20.9		+19 20		0.396

(443) Photographica 12.4 1913

1914	α		δ		log Δ
Nov. 24	4 55.1	8.7	+15 22	24	0.097
Dez. 2	[4] 4 46.4	8.8	+14 58	21	0.091
10	4 37.6	8.2	+14 37	14	0.092
18	4 29.4	7.1	+14 23	5	0.099
26	4 22.3	5.4	+14 18	—1	0.111
34	4 16.9		+14 19		0.127

(455) Bruchsalia 10.9 1913

1914	α		δ		log Δ
Nov. 24	4 56.4	9.1	+19 45	31	0.138
Dez. 2	[4] 4 47.3	9.3	+20 16	30	0.142
10	4 38.0	8.6	+20 46	30	0.151
18	4 29.4	7.1	+21 16	29	0.166
26	4 22.3	4.9	+21 45	25	0.184
34	4 17.4		+22 10		0.207

(691) Lehigh 12.3 1910

1914	α		δ		log Δ
Nov. 24	4ʰ 55ᵐ.8	7.4	+15° 53′	22	0.244
Dez. 2	[5] 4 48.4	7.7	+16 15	25	0.242
10	4 40.7	7.4	+16 40	26	0.245
18	4 33.3	6.4	+17 6	28	0.252
26	4 26.9	5.0	+17 34	31	0.264
34	4 21.9		+18 5		0.279

(634) Ute 12.8 1912

1914	α		δ		log Δ
Nov. 24	5 0.5	6.8	+ 5 52	2	0.278
Dez. 2	[6] 4 53.7	7.0	+ 5 50	—7	0.279
10	4 46.7	6.8	+ 5 57	16	0.283
18	4 39.9	5.8	+ 6 13	25	0.291
26	4 34.1	4.5	+ 6 38	31	0.303
34	4 29.6		+ 7 9		0.318

(713) [1911 *LS*] 12.7 1913

1914	α		δ		log Δ
Nov. 24	5 7.4	6.3	+15 15	29	0.362
Dez. 2	[7] 5 1.1	6.4	+14 46	26	0.360
10	4 54.7	6.2	+14 20	22	0.362
18	4 48.5	5.6	+13 58	18	0.368
26	4 42.9	4.5	+13 40	12	0.377
34	4 38.4		+13 28		0.389

(641) Agnes 13.7 1907

1914	α		δ		log Δ
Nov. 24	5 11.0	8.5	+24 41	0	9.991
Dez. 2	[7] 5 2.5	9.2	+24 41	5	9.985
10	4 53.3	8.8	+24 36	7	9.986
18	4 44.5	7.4	+24 29	9	9.994
26	4 37.1	5.2	+24 20	9	0.011
34	4 31.9		+24 11		0.027

(4) Vesta 7.1 1912

1914	α		δ		log Δ
Nov. 24	5 12.6	8.3	+17 3	3	0.209
Dez. 2	[8] 5 4.3	8.9	+17 6	6	0.203
10	4 55.4	8.6	+17 12	8	0.202
18	4 46.8	7.8	+17 20	11	0.206
26	4 39.0	6.3	+17 31	15	0.214
34	4 32.7		+17 46		0.227

(429) Lotis 12.0 1913

1914	α		δ		log Δ
Nov. 24	5 12.4	7.2	+14 36	47	0.148
Dez. 2	[8] 5 5.2	7.7	+13 49	42	0.145
10	4 57.5	7.5	+13 7	35	0.147
18	4 50.0	6.5	+12 32	26	0.154
26	4 43.5	4.9	+12 6	15	0.167
34	4 38.6		+11 51		0.183

(250) Bettina 10.8 1912

1914		α		δ		log Δ
Nov. 24		5ʰ 20ᵐ.2	7.7	+37° 58′	35	0.268
Dez. 2	9	5 12.5	8.6	+38 33	19	0.261
10		5 3.9	8.7	+38 52	6	0.259
18		4 55.2	7.9	+38 58	— 4	0.261
26		4 47.3	6.6	+38 54	14	0.267
34		4 40.7		+38 40		0.276

(414) Liriope 12.8 1910

1914		α		δ		log Δ
Dez. 2		5 19.5	6.4	+14 47	8	0.346
10	11	5 13.1	6.5	+14 55	12	0.345
18		5 6.6	6.1	+15 7	14	0.347
26		5 0.5	5.3	+15 21	18	0.353
34		4 55.2	4.2	+15 39	21	0.362
42		4 51.0		+16 0		0.374

(640) Brambilla 13.4 1912

1914		α		δ		log Δ
Dez. 2		5 23.6	6.6	+16 5	30	0.387
10	12	5 17.0	6.7	+15 35	28	0.385
18		5 10.3	6.3	+15 7	24	0.387
26		5 4.0	5.6	+14 43	20	0.392
34		4 58.4	4.1	+14 23	15	0.399
42		4 54.3		+14 8		0.410

(41) Daphne 11.4 1912

1914		α		δ		log Δ
Dez. 2		5 27.6	6.9	+ 1 9	21	0.370
10	12	5 20.7	7.0	+ 0 48	11	0.365
18		5 13.7	6.8	+ 0 37	—	0.364
26		5 6.9	6.3	+ 0 37	11	0.366
34		5 0.6	5.6	+ 0 48	21	0.371
42		4 55.0		+ 1 9		0.380

(92) Undina 11.1 1913

1914		α		δ		log Δ
Dez. 2		5 28.0	6.8	+17 26	9	0.367
10	12	5 21.2	6.9	+17 35	11	0.366
18		5 14.3	6.7	+17 46	13	0.367
26		5 7.6	5.9	+17 59	15	0.373
34		5 1.7	4.4	+18 14	17	0.382
42		4 57.3		+18 31		0.394

(246) Asporina 12.3 1913

1914		α		δ		log Δ
Dez. 2		5 30.5	7.0	+ 0 26	12	0.314
10	13	5 23.5	7.1	+ 0 14	— 1	0.311
18		5 16.4	6.9	+ 0 15	12	0.312
26		5 9.5	6.2	+ 0 27	24	0.317
34		5 3.3	4.9	+ 0 51	33	0.324
42		4 58.4		+ 1 24		0.337

(314) Rosalia 13.8 1913

1914		α		δ		log Δ
Dez. 2		5ʰ 29ᵐ.9	6.6	+ 4° 47′	12	0.308
10	13	5 23.3	6.6	+ 4 35	2	0.308
18		5 16.7	6.3	+ 4 33	— 7	0.313
26		5 10.4	5.5	+ 4 40	17	0.320
34		5 4.9	4.2	+ 4 57	25	0.331
42		5 0.7		+ 5 22		0.345

(470) Kilia 13.3 1913

1914		α		δ		log Δ
Dez. 2		5 38.8	8.0	+11 50	15	0.208
10	14	5 30.8	8.3	+11 35	8	0.201
18		5 22.5	8.1	+11 27	1	0.200
26		5 14.4	7.1	+11 26	— 7	0.203
34		5 7.3	5.8	+11 33	14	0.212
42		5 1.5		+11 47		0.224

(300) Geraldina 12.6 1911

1914		α		δ		log Δ
Dez. 2		5 43.4	6.8	+24 6	2	0.363
10	15	5 36.6	7.1	+24 4	3	0.359
18		5 29.5	6.8	+24 1	5	0.359
26		5 22.7	6.2	+23 56	5	0.363
34		5 16.5	5.3	+23 51	6	0.370
42		5 11.2		+23 45		0.381

(528) Rezia 12.3 1911

1914		α		δ		log Δ
Dez. 2		5 45.7	7.0	+32 27	22	0.382
10	16	5 38.7	7.6	+32 49	17	0.378
18		5 31.1	7.4	+33 6	11	0.377
26		5 23.7	6.9	+33 17	5	0.380
34		5 16.8	5.7	+33 22	0	0.387
42		5 11.1		+33 22		0.396

(173) Ino 10.5 1913

1914		α		δ		log Δ
Dez. 2		5 55.1	7.0	+ 1 52	2	0.181
10	17	5 48.1	7.6	+ 1 54	20	0.179
18		5 40.5	7.3	+ 2 14	34	0.184
26		3 33.2	6.6	+ 2 48	46	0.189
34		5 26.6	5.4	+ 3 34	56	0.201
42		5 21.2		+ 4 30		0.217

(46) Hestia 10.5 1913

1914		α		δ		log Δ
Dez. 2		5 57.2	8.1	+19 45	8	0.171
10	17	5 49.1	8.6	+19 37	3	0.168
18		5 40.5	8.2	+19 34	2	0.170
26		5 32.3	7.5	+19 32	1	0.178
34		5 24.8	5.9	+19 31	0	0.190
42		5 18.9		+19 31		0.206

(183) Istria 10.7 1911

1914	α		δ		log Δ
Dez. 2	5h 56m.9	6.6	−22° 1′	38	0.037
10	18 5 50.3	7.1	−21 23	84	0.032
18	5 43.2	6.9	−19 59	121	0.034
26	5 36.3	5.8	−17 58	150	0.040
34	5 30.5	4.2	−15 28	173	0.051
42	5 26.3		−12 35		0.066

(39) Laetitia 9.4 1913

1914	α		δ		log Δ
Dez. 2	5 58.4	6.7	+ 8 0	4	0.243
10	18 5 51.7	7.4	+ 7 56	— 4	0.240
18	5 44.3	7.3	+ 8 0	13	0.240
26	5 37.0	6.7	+ 8 13	22	0.244
34	5 30.3	5.6	+ 8 35	29	0.253
42	5 24.7		+ 9 4		0.266

(208) Lacrimosa 12.0 1913

1914	α		δ		log Δ
Dez. 10	6 6.1	7.6	+26 6	3	0.276
18	21 5 58.5	7.8	+26 9	— 1	0.272
26	5 50.7	7.6	+26 8	3	0.272
34	5 43.1	6.5	+26 5	6	0.277
42	5 36.6	5.1	+25 59	8	0.286
50	5 31.5		+25 51		0.299

(149) Medusa 11.7 1912

1914	α		δ		log Δ
Dez. 10	6 11.2	9.0	+21 44	2	0.036
18	21 6 2.2	9.6	+21 46	2	0.032
26	5 52.6	8.8	+21 48	1	0.034
34	5 43.8	7.3	+21 49	2	0.043
42	5 36.5	5.3	+21 51	2	0.058
50	5 31.2		+21 53		0.077

(464) Megaira 11.9 1901

1914	α		δ		log Δ
Dez. 10	6 8.2	8.1	+18 23	31	0.228
18	21 6 0.1	8.2	+18 54	31	0.230
26	5 51.9	7.7	+19 25	31	0.236
34	5 44.2	6.6	+19 56	31	0.246
42	5 37.6	5.1	+20 27	31	0.261
50	5 32.5		+20 58		0.279

(692) Hippodamia 12.5 1911

1914	α		δ		log Δ
Dez. 10	6 17.5	9.3	+39 50	78	0.282
18	23 6 8.2	9.6	+41 8	65	0.278
26	5 58.6	9.5	+42 13	50	0.278
34	5 49.1	8.7	+43 3	37	0.282
42	5 40.4	7.2	+43 40	23	0.290
50	5 33.2		+44 3		0.300

(363) Padua 11.6 1912

1914	α		δ		log Δ
Dez. 10	6h 16m.7	8.0	+27° 0′	20	0.251
18	23 6 8.7	8.4	+27 20	16	0.248
26	6 0.3	8.0	+27 36	11	0.249
34	5 52.3	7.2	+27 47	7	0.255
42	5 45.1	5.9	+27 54	4	0.265
50	5 39.2		+27 58		0.277

(708) Raphaela 13.3 1911

1914	α		δ		log Δ
Dez. 10	6 17.3	8.1	+28 50	6	0.243
18	23 6 9.2	8.6	+28 56	1	0.236
26	6 0.6	8.5	+28 57	— 5	0.234
34	5 52.1	7.5	+28 52	10	0.237
42	5 44.6	6.0	+28 42	11	0.244
50	5 38.6		+28 31		0.254

(7) Iris 7.3 1913

1914	α		δ		log Δ
Dez. 10	6 26.5	8.3	+21 56	31	9.994
18	24 6 18.2	8.8	+21 25	31	9.993
26	6 9.4	8.3	+20 54	29	9.998
34	6 1.1	6.9	+20 25	25	0.010
42	5 54.2	4.7	+20 0	21	0.028
50	5 49.5		+19 39		0.051

(275) Sapientia 11.5 1913

1914	α		δ		log Δ
Dez. 10	6 34.3	6.8	+17 59	11	0.217
18	26 6 27.5	7.7	+18 10	13	0.206
26	6 19.8	7.8	+18 23	16	0.200
34	6 12.0	7.4	+18 39	17	0.199
42	6 4.6	6.3	+18 56	20	0.202
50	5 58.3		+19 16		0.211

(620) Drakonia 13.7 1908

1914	α		δ		log Δ
Dez. 18	6 29.6	9.9	+35 46	6	0.205
26	26 6 19.7	9.9	+35 52	— 5	0.206
34	6 9.8	8.9	+35 47	16	0.211
42	6 0.9	7.3	+35 31	24	0.221
50	5 53.6	5.5	+35 7	31	0.235
58	5 48.1		+34 36		0.252

(460) Scania 13.8 1913

1914	α		δ		log Δ
Dez. 18	6 30.7	7.8	+16 35	2	0.228
26	27 6 22.9	7.8	+16 33	— 1	0.228
34	6 15.1	7.1	+16 34	5	0.232
42	6 8.0	6.0	+16 39	8	0.240
50	6 2.0	4.5	+16 47	10	0.253
58	5 57.5		+16 57		0.269

(419) Aurelia 12.3 1909

1914	α		δ		log Δ
Dez. 18	6h 33m.9	7.8	+19° 17'	0	0.359
26	6 26.1	7.8	+19 17	0	0.356
34	[27] 6 18.3	7.6	+19 17	0	0.357
42	6 10.7	6.7	+19 17	2	0.362
50	6 4.0	5.4	+19 19	2	0.369
58	5 58.6		+19 21		0.381

(43) Ariadne 10.9 1913

1914	α		δ		log Δ
Dez. 18	6 36.8	9.4	+22 21	4	0.204
26	6 27.4	9.6	+22 17	5	0.201
34	[27] 6 17.8	9.0	+22 12	5	0.202
42	6 8.8	7.7	+22 7	7	0.210
50	6 1.1	6.1	+22 0	10	0.221
58	5 55.0		+21 50		0.235

(686) Gersuind 14.3 1913

1914	α		δ		log Δ
Dez. 18	6 38.4	8.3	+10 45	28	0.279
26	6 30.1	8.4	+10 17	20	0.281
34	[28] 6 21.7	7.7	+ 9 57	13	0.286
42	6 14.0	6.6	+ 9 44	6	0.295
50	6 7.4	5.3	+ 9 38	0	0.308
58	6 2.1		+ 9 38		0.324

(687) Tinette 13.9 1909

1914	α		δ		log Δ
Dez. 18	6 45.1	10.9	+45 55	21	0.130
26	6 34.2	11.1	+45 34	38	0.133
34	[28] 6 23.1	9.7	+44 56	55	0.141
42	6 13.4	7.6	+44 1	69	0.154
50	6 5.8	5.1	+42 52	79	0.171
58	6 0.7		+41 33		0.191

(125) Liberatrix 11.6 1912

1914	α		δ		log Δ
Dez. 18	6 43.3	7.2	+16 28	7	0.301
26	6 36.1	7.6	+16 35	10	0.297
34	[29] 6 28.5	7.3	+16 45	12	0.297
42	6 21.2	6.5	+16 57	14	0.301
50	6 14.7	5.2	+17 11	15	0.310
58	6 9.5		+17 26		0.321

(553) Kundry 13.0 1905

1914	α		δ		log Δ
Dez. 18	6 46.9	9.2	+26 49	40	0.010
26	6 37.7	9.4	+27 29	36	0.006
34	[29] 6 28.3	9.0	+28 5	27	0.009
42	6 19.3	7.4	+28 32	18	0.018
50	6 11.9	5.0	+28 50	9	0.034
58	6 6.9		+28 59		0.054

(492) Gismonda 13.5 1912

1914	α		δ		log Δ
Dez. 18	6h 45m.4	7.2	+24° 49'	9	0.372
26	6 38.2	7.3	+24 58	8	0.371
34	[30] 6 30.9	7.0	+25 6	5	0.373
42	6 23.9	6.2	+25 11	3	0.379
50	6 17.7	5.2	+25 14	1	0.389
58	6 12.5		+25 15		0.400

(68) Leto 10.7 1913

1914	α		δ		log Δ
Dez. 18	6 48.5	8.6	+32 19	24	0.283
26	6 39.9	8.7	+32 43	17	0.282
34	[30] 6 31.2	8.3	+33 0	8	0.285
42	6 22.9	7.3	+33 8	1	0.293
50	6 15.6	5.8	+33 9	−7	0.304
58	6 9.8		+33 2		0.320

(732) [1912 *OR*] 13.3 1913

1914	α		δ		log Δ
Dez. 18	6 51.5	7.6	+ 5 51	3	0.208
26	6 43.9	7.9	+ 5 54	16	0.202
34	[31] 6 36.0	7.7	+ 6 10	26	0.200
42	6 28.3	7.0	+ 6 36	36	0.203
50	6 21.3	5.4	+ 7 12	43	0.210
58	6 15.9		+ 7 55		0.222

(120) Lachesis 11.9 1912

1914	α		δ		log Δ
Dez. 18	6 53.9	7.2	+32 3	5	0.355
26	6 46.7	7.8	+32 8	2	0.350
34	[31] 6 38.9	7.7	+32 10	−5	0.349
42	6 31.2	6.9	+32 5	10	0.352
50	6 24.3	5.8	+31 55	16	0.358
58	6 18.5		+31 39		0.367

(252) Clementina 13.1 1902

1914	α		δ		log Δ
Dez. 18	6 53.2	6.2	+ 9 8	−6	0.357
26	6 47.0	6.6	+ 9 2	1	0.353
34	[31] 6 40.4	6.4	+ 9 3	8	0.354
42	6 34.0	5.9	+ 9 11	14	0.357
50	6 28.1	5.0	+ 9 25	19	0.364
58	6 23.1		+ 9 44		0.374

(13) EGERIA 1914

12h Mittl. Zeit	α vera (h m s)	Diff. (s)	δ vera (° ′ ″)	Diff. (′ ″)	log Δ	Aberr.-Zt (m s)
Febr. 25	11 58 13.07	−57.14	+26 26 58.9	+4 31.8	0.167499	12 13
26	11 57 15.93	58.38	26 31 30.7	4 20.0	0.166869	12 12
27	11 56 17.55	59.53	26 35 50.7	4 7.6	0.166311	12 11
28	11 55 18.02	60.60	26 39 58.3	3 54.6	0.165826	12 10
März 1	11 54 17.42	−61.59	26 43 52.9	+3 41.0	0.165414	12 10
2	11 53 15.83	62.51	+26 47 33.9	3 27.0	0.165075	12 9
3	11 52 13.32	63.34	26 51 0.9	3 12.4	0.164810	12 9
4	11 51 9.98	64.08	26 54 13.3	2 57.3	0.164620	12 8
5	11 50 5.90	64.74	26 57 10.6	2 41.9	0.164504	12 8
6	11 49 1.16	−65.32	26 59 52.5	+2 25.9	0.164462	12 8
7	11 47 55.84	65.80	+27 2 18.4	2 9.5	0.164494	12 8
8	11 46 50.04	66.20	27 4 27.9	1 52.7	0.164601	12 8
9	11 45 43.84	66.51	27 6 20.6	1 35.5	0.164783	12 9
10	11 44 37.33	66.74	27 7 56.1	1 18.1	0.165039	12 9
11	11 43 30.59	−66.88	27 9 14.2	+1 0.5	0.165369	12 10
12	11 42 23.71	66.94	+27 10 14.7	0 42.9	0.165772	12 10
13	11 41 16.77	66.91	27 10 57.6	0 25.1	0.166249	12 11
14	11 40 9.86	66.80	27 11 22.7	+0 7.0	0.166800	12 12
☍ 15	11 39 3.06	66.59	27 11 29.7	−0 11.2	0.167423	12 13
16	11 37 56.47	−66.31	27 11 18.5	−0 29.7	0.168118	12 14
17	11 36 50.16	65.93	+27 10 48.8	0 48.2	0.168884	12 15
18	11 35 44.23	65.47	27 10 0.6	1 6.9	0.169722	12 17
19	11 34 38.76	64.92	27 8 53.7	1 25.6	0.170630	12 18
20	11 33 33.84	64.30	27 7 28.1	1 44.3	0.171607	12 20
21	11 32 29.54	−63.59	27 5 43.8	−2 3.1	0.172652	12 22
22	11 31 25.95	62.81	+27 3 40.7	2 21.8	0.173765	12 24
23	11 30 23.14	61.93	27 1 18.9	2 40.4	0.174944	12 26
24	11 29 21.21	60.99	26 58 38.5	2 58.9	0.176188	12 28
25	11 28 20.22	59.97	26 55 39.6	3 17.1	0.177496	12 30
26	11 27 20.25	−58.88	26 52 22.5	−3 35.3	0.178866	12 33
27	11 26 21.37	57.72	+26 48 47.2	3 53.3	0.180297	12 35
28	11 25 23.65	56 50	26 44 53.9	4 11.0	0.181787	12 38
29	11 24 27.15	55.22	26 40 42.9	4 28.6	0.183336	12 40
30	11 23 31.93	53.88	26 36 14.3	4 45.9	0.184942	12 43
31	11 22 38.05	−52.49	26 31 28.4	−5 3.0	0.186603	12 46
April 1	11 21 45.56	51.04	+26 26 25.4	5 19.9	0.188319	12 49
2	11 20 54.52		26 21 5.5		0.190087	12 52

Opp. in AR. März 15 Gröſse = 9.4

H. Samter

(241) GERMANIA 1914

12^h Mittl. Zeit	α_{vera}	Diff.	δ_{vera}	Diff.	log Δ	Aberr.-Zt
März 10	12^h 30^m 12^s.80	−39^s.63	−11° 34′ 58″.1	+3′ 6″.8	0.381077	19^m 59^s
11	12 29 33.17	40.29	11 31 51.3	3 14.3	0.380023	19 56
12	12 28 52.88	40.89	11 28 37.0	3 21.8	0.379015	19 53
13	12 28 11.99	41.46	11 25 15.2	3 29.2	0.378055	19 50
14	12 27 30.53	−42.00	11 21 46.0	+3 36.4	0.377143	19 48
15	12 26 48.53	42.49	−11 18 9.6	3 43.4	0.376280	19 45
16	12 26 6.04	42.96	11 14 26.2	3 50.2	0.375466	19 43
17	12 25 23.08	43.38	11 10 36.0	3 57.0	0.374703	19 41
18	12 24 39.70	43.76	11 6 39.0	4 3.4	0.373991	19 39
19	12 23 55.94	−44.09	11 2 35.6	+4 9.6	0.373331	19 37
20	12 23 11.85	44.38	−10 58 26.0	4 15.7	0.372724	19 36
21	12 22 27.47	44.64	10 54 10.3	4 21.5	0.372169	19 34
22	12 21 42.83	44.84	10 49 48.8	4 27.1	0.371667	19 33
23	12 20 57.99	44.99	10 45 21.7	4 32.3	0.371220	19 32
24	12 20 13.00	−45.11	10 40 49.4	+4 37.3	0.370827	19 31
25	12 19 27.89	45.18	−10 36 12.1	4 42.0	0.370488	19 30
☍ 26	12 18 42.71	45.19	10 31 30.1	4 46.5	0.370204	19 29
27	12 17 57.52	45.17	10 26 43.6	4 50.6	0.369975	19 28
28	12 17 12.35	45.10	10 21 53.0	4 54.5	0.369801	19 28
29	12 16 27.25	−44.98	10 16 58.5	+4 58.1	0.369683	19 28
30	12 15 42.27	44.81	−10 12 0.4	5 1.2	0.369619	19 27
31	12 14 57.46	44.61	10 6 59.2	5 4.2	0.369611	19 27
April 1	12 14 12.85	44.36	10 1 55.0	5 6.8	0.369657	19 28
2	12 13 28.49	44.06	9 56 48.2	5 9.2	0.369758	19 28
3	12 12 44.43	−43.72	9 51 39.0	+5 11.1	0.369914	19 28
4	12 12 0.71	43.34	− 9 46 27.9	5 12.8	0.370124	19 29
5	12 11 17.37	42.92	9 41 15.1	5 14.2	0.370388	19 29
6	12 10 34.45	42.46	9 36 0.9	5 15.3	0.370705	19 30
7	12 9 51.99	41.97	9 30 45.6	5 16.0	0.371075	19 31
8	12 9 10.02	−41.43	9 25 29.6	+5 16.5	0.371498	19 32
9	12 8 28.59	40.87	− 9 20 13.1	5 16.8	0.371972	19 34
10	12 7 47.72	40.26	9 14 56.3	5 16.6	0.372498	19 35
11	12 7 7.46	39.62	9 9 39.7	5 16.2	0.373075	19 37
12	12 6 27.84	38.96	9 4 23.5	5 15.6	0.373701	19 38
13	12 5 48.88	−38.26	8 59 7.9	+5 14.7	0.374378	19 40
14	12 5 10.62	37.52	− 8 53 53.2	5 13.4	0.375103	19 42
15	12 4 33.10		8 48 39.8		0.375877	19 44

Opp. in AR. März 26 Gröſse = 11.7

W. Luther

(78) DIANA 1914

12ʰ Mittl. Zeit	α vera	Diff.	δ vera	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
März 16	12 49 41.18	−54.06	−14 20 34.9	+0 2.8	0.13316	11 17
17	12 48 47.12	55.06	14 20 32.1	0 14.3		
18	12 47 52.06	55.99	14 20 17.8	0 25.2		
19	12 46 56.07	56.80	14 19 52.6	0 36.4		
20	12 45 59.27	−57.50	14 19 16.2	+0 48.0	0.13045	11 13
21	12 45 1.77	58.13	−14 18 28.2	0 59.3		
22	12 44 3.64	58.72	14 17 28.9	0 10.3		
23	12 43 4.92	59.24	14 16 18.6	1 21.0		
24	12 42 5.68	59.68	14 14 57.6	1 31.6	0.12911	11 11
25	12 41 6.00	−60.03	14 13 26.0	+1 41.5		
26	12 40 5.97	60.27	−14 11 44.5	1 51.2		
27	12 39 5.70	60.42	14 9 53.3	2 0.5		
28	12 38 5.28	60.48	14 7 52.8	2 9.5	0.12889	11 11
29	12 37 4.80	60.46	14 5 43.3	2 18.2		
30	12 36 4.34	−60.36	14 3 25.1	+2 26.3		
☍ 31	12 35 3.98	60.18	−14 0 58.8	2 33.8		
April 1	12 34 3.80	59.91	13 58 25.0	2 41.3	0.13014	11 13
2	12 33 3.89	59.55	13 55 43.7	2 48.1		
3	12 32 4.34	59.13	13 52 55.6	2 54.6		
4	12 31 5.21	−58.63	13 50 1.0	+3 0.5		
5	12 30 6.58	58.04	−13 47 0.5	3 6.1	0.13272	11 17
6	12 29 8.54	57.39	13 43 54.4	3 11.4		
7	12 28 11.15	56.67	13 40 43.0	3 16.0		
8	12 27 14.48	55.89	13 37 27.0	3 20.2		
9	12 26 18.59	−55.02	13 34 6.8	+3 24.1	0.13662	11 23
10	12 25 23.57	54.11	−13 30 42.7	3 27.5		
11	12 24 29.46	53.14	13 27 15.2	3 30.4		
12	12 23 36.32	52.10	13 23 44.8	3 32.7		
13	12 22 44.22	51.00	13 20 12.1	3 34.9	0.14176	11 31
14	12 21 53.22	−49.86	13 16 37.2	+3 36.5		
15	12 21 3.36	48.69	−13 13 0.7	3 37.5		
16	12 20 14.67	47.50	13 9 23.2	3 38.4		
17	12 19 27.17		13 5 44.8		0.14808	11 41

Opp. in AR. März 31 Gröſse = 10.0

W. Baranow

(247) EUKRATE 1914

12h Mittl. Zeit		α vera	Diff.	δ vera	Diff.	log Δ	Aberr.-Zt
Juli	1	20h 36m 38s.13	−69s.54	−54° 24′ 24″.7	−5′ 23″.5	0.329295	17m 44s
	2	20 35 28.59	71.48	54 29 48.2	5 10.9	0.328173	17 41
	3	20 34 17.11	73.38	54 34 59.1	4 57.8	0.327092	17 39
	4	20 33 3.73	75.21	54 39 56.9	4 44.1	0.326054	17 36
	5	20 31 48.52	−76.98	54 44 41.0	−4 29.9	0.325058	17 34
	6	20 30 31.54	78.69	−54 49 10.9	4 15.3	0.324106	17 31
	7	20 29 12.85	80.31	54 53 26.2	4 0.1	0.323197	17 29
	8	20 27 52.54	81.86	54 57 26.3	3 44.3	0.322333	17 27
	9	20 26 30.68	83.34	55 1 10.6	3 28.3	0.321514	17 25
	10	20 25 7.34	−84.71	55 4 38.9	−3 11.6	0.320741	17 23
	11	20 23 42.63	86.01	−55 7 50.5	2 54.6	0.320014	17 22
	12	20 22 16.62	87.21	55 10 45.1	2 37.0	0.319333	17 20
	13	20 20 49.41	88.32	55 13 22.1	2 19.2	0.318699	17 18
	14	20 19 21.09	89.31	55 15 41.3	2 0.8	0.318112	17 17
	15	20 17 51.78	−90.19	55 17 42.1	−1 42.3	0.317573	17 16
	16	20 16 21.59	90.98	−55 19 24.4	1 23.2	0.317082	17 15
	17	20 14 50.61	91.64	55 20 47.6	1 4.0	0.316639	17 13
	18	20 13 18.97	92.20	55 21 51.6	0 44.4	0.316245	17 13
	19	20 11 46.77	92.62	55 22 36.0	0 24.6	0.315899	17 12
	20	20 10 14.15	−92.93	55 23 0.6	−0 4.6	0.315602	17 11
	21	20 8 41.22	93.12	−55 23 5.2	+0 15.6	0.315355	17 10
☍	22	20 7 8.10	93.19	55 22 49.6	0 35.9	0.315156	17 10
	23	20 5 34.91	93.12	55 22 13.7	0 56.2	0.315006	17 10
	24	20 4 1.79	92.93	55 21 17.5	1 16.7	0.314905	17 9
	25	20 2 28.86	−92.61	55 20 0.8	+1 37.2	0.314854	17 9
	26	20 0 56.25	92.17	−55 18 23.6	1 57.6	0.314850	17 9
	27	19 59 24.08	91.61	55 16 26.0	2 18.0	0.314895	17 9
	28	19 57 52.47	90.95	55 14 8.0	2 38.3	0.314989	17 9
	29	19 56 21.52	90.16	55 11 29.7	2 58.4	0.315130	17 10
	30	19 54 51.36	−89.26	55 8 31.3	+3 18.3	0.315318	17 10
	31	19 53 22.10	88.25	−55 5 13.0	3 38.1	0.315553	17 11
Aug.	1	19 51 53.85	87.15	55 1 34.9	3 57.6	0.315835	17 12
	2	19 50 26.70	85.94	54 57 37.3	4 16.8	0.316163	17 12
	3	19 49 0.76	84.63	54 53 20.5	4 35.9	0.316537	17 13
	4	19 47 36.13	−83.23	54 48 44.6	+4 54.5	0.316956	17 14
	5	19 46 12.90	81.74	−54 43 50.1	5 12.8	0.317419	17 15
	6	19 44 51.16		54 38 37.3		0.317927	17 16

Opp. in AR. Juli 22 Größe = 12.0

W. Luther

(288) GLAUKE 1914

12h Mittl. Zeit		α vera	Diff.	δ vera	Diff.	log Δ	Aberr.-Zt
Juli	22	21h 0m 4s.35	−50s.50	−17° 50′ 48″.7	−5′ 3″.5	0.257108	15m 1s
	23	20 59 13.85	51.03	17 55 52.2	5 4.2	0.256937	15 1
	24	20 58 22.82	51.49	18 0 56.4	5 4.7	0.256831	15 1
	25	20 57 31.33	51.90	18 6 1.1	5 4.8	0.256791	15 0
	26	20 56 39.43	−52.23	18 11 5.9	−5 4.7	0.256816	15 0
	27	20 55 47.20	52.52	−18 16 10.6	5 4.1	0.256907	15 1
	28	20 54 54.68	52.74	18 21 14.7	5 3.3	0.257065	15 1
	29	20 54 1.94	52.91	18 26 18.0	5 2.2	0.257289	15 1
	30	20 53 9.03	53.00	18 31 20.2	5 0.8	0.257580	15 2
	31	20 52 16.03	−53.06	18 36 21.0	−4 59.1	0.257936	15 3
Aug.	1	20 51 22.97	53.04	−18 41 20.1	4 57.1	0.258359	15 4
☍	2	20 50 29.93	52.98	18 46 17.2	4 55.0	0.258848	15 5
	3	20 49 36.95	52.85	18 51 12.2	4 52.5	0.259403	15 6
	4	20 48 44.10	52.66	18 56 4.7	4 49.8	0.260023	15 7
	5	20 47 51.44	−52.44	19 0 54.5	−4 46.8	0.260707	15 8
	6	20 46 59.00	52.13	−19 5 41.3	4 43.7	0.261457	15 10
	7	20 46 6.87	51.79	19 10 25.0	4 40.3	0.262270	15 12
	8	20 45 15.08	51.39	19 15 5.3	4 36.6	0.263147	15 14
	9	20 44 23.69	50.92	19 19 41.9	4 32.8	0.264088	15 16
	10	20 43 32.77	−50.42	19 24 14.7	−4 28.7	0.265090	15 18
	11	20 42 42.35	49.85	−19 28 43.4	4 24.6	0.266155	15 20
	12	20 41 52.50	49.23	19 33 8.0	4 20.1	0.267281	15 22
	13	20 41 3.27	48.56	19 37 28.1	4 15.6	0.268467	15 25
	14	20 40 14.71	47.83	19 41 43.7	4 10.7	0.269713	15 28
	15	20 39 26.88	−47.06	19 45 54.4	−4 5.9	0.271017	15 30
	16	20 38 39.82	46.24	−19 50 0.3	4 0.7	0.272379	15 33
	17	20 37 53.58	45.36	19 54 1.0	3 55.5	0.273798	15 36
	18	20 37 8.22	44.44	19 57 56.5	3 50.1	0.275273	15 39
	19	20 36 23.78	43.48	20 1 46.6	3 44.6	0.276802	15 43
	20	20 35 40.30	−42.47	20 5 31.2	−3 39.0	0.278384	15 46
	21	20 34 57.83	41.41	−20 9 10.2	3 33.2	0.280019	15 50
	22	20 34 16.42	40.32	20 12 43.4	3 27.3	0.281705	15 53
	23	20 33 36.10	39.18	20 16 10.7	3 21.4	0.283441	15 57
	24	20 32 56.92	38.01	20 19 32.1	3 15.4	0.285225	16 1
	25	20 32 18.91	−36.80	20 22 47.5	−3 9.2	0.287056	16 5
	26	20 31 42.11	35.57	−20 25 56.7	3 3.1	0.288932	16 9
	27	20 31 6.54		20 28 59.8		0.290852	16 14

Opp. in AR. August 2 Grőſse = 12.7

W. Luther

(447) VALENTINE 1914

12h Mittl. Zeit	α_{vera}	Diff.	δ_{vera}	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
Aug. 14	23 20 32.40	−67.78	−12 0 16.6	− 9 55.9	0.2903	16 13
16	23 19 24.62	71.87	12 10 12.5	10 7.3		
18	23 18 12.75	75.68	12 20 19.8	10 15.6	0.2856	16 3
20	23 16 57.07	79.20	12 30 35.4	10 21.3		
22	23 15 37.87	−82.38	12 40 56.7	−10 23.9	0.2818	15 54
24	23 14 15.49	85.19	−12 51 20.6	10 23.6		
26	23 12 50.30	87.63	13 1 44.2	10 20.2	0.2789	15 48
28	23 11 22.67	89.70	13 12 4.4	10 14.0		
30	23 9 52.97	91.37	13 22 18.4	10 4.9	0.2770	15 44
Sept. 1	23 8 21.60	−92.64	13 32 23.3	− 9 53.1		
3	23 6 48.96	93.53	−13 42 16.4	9 38.7	0.2760	15 42
5	23 5 15.43	93.99	13 51 55.1	9 21.7		
☍ 7	23 3 41.44	94.05	14 1 16.8	9 2.3	0.2761	15 42
9	23 2 7.39	93.68	14 10 19.1	8 40.3		
11	23 0 33.71	−92.90	14 18 59.4	− 8 15.9	0.2772	15 44
13	22 59 0.81	91.67	−14 27 15.3	7 49.3		
15	22 57 29.14	90.03	14 35 4.6	7 20.6	0.2793	15 49
17	22 55 59.11	87.96	14 42 25.2	6 50.0		
19	22 54 31.15	85.47	14 49 15.2	6 17.5	0.2824	15 56
21	22 53 5.68	−82.59	14 55 32.7	− 5 43.5		
23	22 51 43.09	79.34	−15 1 16.2	5 8.2	0.2864	16 4
25	22 50 23.75	75.76	15 6 24.4	4 31.8		
27	22 49 7.99	71.87	15 10 56.2	3 54.9	0.2913	16 15
29	22 47 56.12	−67.74	15 14 51.1	− 3 17.4		
Okt. 1	22 46 48.38		−15 18 8.5		0.2970	16 28

Opp. in AR. Sept. 7 Größe = 12.1

H. Osten

(433) EROS 1914

12h Mittl. Zeit		α vera	Diff.	δ vera	Diff.	log Δ	Gröſse	Aberr.-Zt
Juni	30	23h 55m.8	+ 8m.4	+ 5° 36′	+127′	0.111	12m.3	
Juli	8	0 4.2	7.1	7 43	130	0.080		
	16	0 11.3	5.7	9 53	131	0.048		
	24	0 17.0	+ 3.8	12 4	+131	0.014	11.8	
Aug.	1	0h 20m 48s.1	+ 35s.3	+14° 15′ 22″	+32′ 25″	9.97899	11m.6	7m 55s
	3	0 21 23.4	26.6	14 47 47	32 20	9.96999		7 45
	5	0 21 50.0	17.4	15 20 7	32 11	9.96094		7 36
	7	0 22 7.4	+ 7.8	15 52 18	32 1	9.95185		7 27
	9	0 22 15.2	− 2.2	16 24 19	+31 47	9.94273		7 17
	11	0 22 13.0	12.8	+16 56 6	31 30	9.93358	11.4	7 8
	13	0 22 0.2	23.9	17 27 36	31 9	9.92442		6 59
	15	0 21 36.3	35.2	17 58 45	30 45	9.91527		6 50
	17	0 21 1.1	47.0	18 29 30	30 15	9.90614		6 41
	19	0 20 14.1	− 59.2	18 59 45	+29 40	9.89705		6 33
	21	0 19 14.9	71.6	+19 29 25	29 0	9.88802	11.1	6 25
	23	0 18 3.3	84.3	19 58 25	28 14	9.87907		6 17
	25	0 16 39.0	97.2	20 26 39	27 23	9.87023		6 10
	27	0 15 1.8	110.0	20 54 2	26 25	9.86152		6 3
	29	0 13 11.8	−122.9	21 20 27	+25 20	9.85297		5 56
	31	0 11 8.9	135.8	+21 45 47	24 7	9.84460	10.9	5 49
Sept.	2	0 8 53.1	148.6	22 9 54	22 47	9.83643		5 42
	4	0 6 24.5	161.1	22 32 41	21 18	9.82850		5 36
	6	0 3 43.4	173.1	22 53 59	19 41	9.82083		5 30
	8	0 0 50.3	−184.7	23 13 40	+17 54	9.81344		5 24
	10	23 57 45.6	195.6	+23 31 34	15 59	9.80638	10.6	5 19
	12	23 54 30.0	205.5	23 47 33	13 56	9.79968		5 14
	14	23 51 4.5	214.4	24 1 29	11 47	9.79336		5 10
	16	23 47 30.1	222.0	24 13 16	9 31	9.78745		5 6
☍	18	23 43 48.1	−228.0	24 22 47	+ 7 11	9.78197		5 2
	20	23 40 0.1	232.5	+24 29 58	4 47	9.77695	10.4	4 58
	22	23 36 7.6	235.3	24 34 45	+ 2 22	9.77242		4 55
	24	23 32 12.3	236.2	24 37 7	− 0 1	9.76840		4 52
	26	23 28 16.1	235.5	24 37 6	2 22	9.76489		4 50
	28	23 24 20.6	−232.8	24 34 44	− 4 40	9.76190		4 48
	30	23 20 27.8	228.5	+24 30 4	6 53	9.75943	10.3	4 46
Okt.	2	23 16 39.3		24 23 11		9.75749		4 45

Fortsetzung nächste Seite

(433) EROS 1914 (Fortsetzung)

12ʰ Mittl. Zeit	α vera	Diff.	δ vera	Diff.	log Δ	Größe	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m	m s
Okt. 2	23 16 39.3	−222.5	+24 23 11	− 8 59	9.75749	10.3	4 45
4	23 12 56.8	214.8	24 14 12	10 57	9.75606		4 44
6	23 9 22.0	205.7	24 3 15	12 45	9.75513		4 44
8	23 5 56.3	195.2	23 50 30	14 24	9.75471		4 44
10	23 2 41.1	−183.4	23 36 6	−15 52	9.75477		4 44
12	22 59 37.7	170.4	+23 20 14	17 7	9.75530	10.3	4 44
14	22 56 47.3	156.5	23 3 7	18 11	9.75626		4 45
16	22 54 10.8	141.6	22 44 56	19 0	9.75764		4 46
18	22 51 49.2	126.0	22 25 56	19 37	9.75942		4 47
20	22 49 43.2	−110.0	22 6 19	−20 2	9.76157		4 48
22	22 47 53.2	93.6	+21 46 17	20 14	9.76406	10.3	4 50
24	22 46 19.6	77.1	21 26 3	20 14	9.76684		4 51
26	22 45 2.5	60.6	21 5 49	20 5	9.76988		4 53
28	22 44 1.9	44.2	20 45 44	19 47	9.77317		4 56
30	22 43 17.7	− 27.9	20 25 57	−19 21	9.77668		4 58
Nov. 1	22 42 49.8	− 11.9	+20 6 36	18 49	9.78036	10.3	5 0
3	22 42 37.9	+ 3.7	19 47 47	18 12	9.78419		5 3
5	22 42 41.6	19.1	19 29 35	17 29	9.78814		5 6
7	22 43 0.7	34.2	19 12 6	16 40	9.79220		5 9
9	22 43 34.9	+ 48.9	18 55 26	−15 48	9.79635		5 12
11	22 44 23.8	63.2	+18 39 38	14 52	9.80057	10.3	5 15
13	22 45 27.0	77.3	18 24 46	13 53	9.80484		5 18
15	22 46 44.3	90.8	18 10 53	12 51	9.80914		5 21
17	22 48 15.1	104.0	17 58 2	11 48	9.81346		5 24
19	22 49 59.1	+116.8	17 46 14	−10 43	9.81777		5 27
21	22 51 55.9	129.2	+17 35 31	9 36	9.82206	10.4	5 31
23	22 54 5.1	141.1	17 25 55	8 30	9.82632		5 34
25	22 56 26.2	152.6	17 17 25	7 24	9.83054		5 37
27	22 58 58.8	+163.6	17 10 1	− 6 18	9.83471		5 40
29	23 1 42.4	m + 12.3	+17 3 43	′ −17	9.83883	10.4	5 44
Dez. 7	h m 23 14.0	15.2	+16° 46′	+ 1	9.855		
15	23 29.2	17.5	16 47	15	9.869		
23	23 46.7	+ 19.4	17 2	+25	9.882		
31	0 6.1		+17 27		9.894	10.5	

Opp. in AR. Sept. 18 Größe = 10.5

Rechen-Institut

(82) ALKMENE 1914

12^h Mittl. Zeit	α vera	Diff.	δ vera	Diff.	log Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Sept. 15	0 50 13.16	−42.64	+3 50 39.7	−3 57.0	0.317308	17 15
16	0 49 30.52	43.52	3 46 42.7	4 1.8	0.315947	17 12
17	0 48 47.00	44.34	3 42 40.9	4 6.3	0.314638	17 9
18	0 48 2.66	45.14	3 38 34.6	4 10.5	0.313383	17 6
19	0 47 17.52	−45.88	3 34 24.1	−4 14.5	0.312182	17 3
20	0 46 31.64	46.58	+3 30 9.6	4 18.2	0.311036	17 0
21	0 45 45.06	47.23	3 25 51.4	4 21.6	0.309947	16 58
22	0 44 57.83	47.84	3 21 29.8	4 24.7	0.308916	16 55
23	0 44 9.99	48.39	3 17 5.1	4 27.6	0.307942	16 53
24	0 43 21.60	−48.92	3 12 37.5	−4 30.1	0.307027	16 51
25	0 42 32.68	49.37	+3 8 7.4	4 32.4	0.306172	16 49
26	0 41 43.31	49.79	3 3 35.0	4 34.3	0.305377	16 47
27	0 40 53.52	50.16	2 59 0.7	4 36.0	0.304643	16 45
28	0 40 3.36	50.48	2 54 24.7	4 37.3	0.303971	16 44
29	0 39 12.88	−50.74	2 49 47.4	−4 38.4	0.303360	16 42
30	0 38 22.14	50.96	+2 45 9.0	4 39.1	0.302811	16 41
Okt. 1	0 37 31.18	51.13	2 40 29.9	4 39.6	0.302325	16 40
2	0 36 40.05	51.24	2 35 50.3	4 39.7	0.301902	16 39
☍ 3	0 35 48.81	51.31	2 31 10.6	4 39.6	0.301542	16 38
4	0 34 57.50	−51.33	2 26 31.0	−4 39.1	0.301245	16 37
5	0 34 6.17	51.29	+2 21 51.9	4 38.4	0.301011	16 37
6	0 33 14.88	51.20	2 17 13.5	4 37.2	0.300841	16 36
7	0 32 23.68	51.06	2 12 36.3	4 35.8	0.300735	16 36
8	0 31 32.62	50.87	2 8 0.5	4 34.1	0.300691	16 36
9	0 30 41.75	−50.63	2 3 26.4	−4 32.1	0.300712	16 36
10	0 29 51.12	50.33	+1 58 54.3	4 29.6	0.300795	16 36
11	0 29 0.79	49.99	1 54 24.7	4 27.0	0.300942	16 37
12	0 28 10.80	49.59	1 49 57.7	4 24.1	0.301151	16 37
13	0 27 21.21	49.13	1 45 33.6	4 20.7	0.301423	16 38
14	0 26 32.08	−48.64	1 41 12.9	−4 17.0	0.301757	16 39
15	0 25 43.44	48.09	+1 36 55.9	4 13.2	0.302152	16 39
16	0 24 55.35	47.49	1 32 42.7	4 8.9	0.302608	16 41
17	0 24 7.86	46.83	1 28 33.8	4 4.3	0.303125	16 42
18	0 23 21.03	46.13	1 24 29.5	3 59.4	0.303701	16 43
19	0 22 34.90	−45.37	1 20 30.1	−3 54.3	0.304336	16 44
20	0 21 49.53	44.57	+1 16 35.8	3 48.8	0.305029	16 46
21	0 21 4.96		1 12 47.0		0.305780	16 48

Opp. in AR. Okt. 3 Größe = 11.7

W. Luther

Erläuterungen.

Bahnelemente der Kleinen Planeten (S. (2)—(41)).

In der Übersicht der Bahnelemente geben die unmittelbar der Nummer und dem Namen folgenden Kolumnen das Datum der Opposition im Jahre 1914 und die gleichzeitige Größe des Planeten, sofern im Jahre 1914 eine solche Opposition stattfindet. Diese Angaben fehlen nur bei den 17 Planeten: 99, 132, 155, 193, 220, 285, 323, 330, 353, 392, 396, 400, 452, 463, 473, 493, 515, deren Ort infolge der Unsicherheit der Elemente auch nicht angenähert vorausberechnet werden kann. Die weiteren Daten: die mittlere Größe m_0, d. h. die Größe, welche der Planet in seiner mittleren Entfernung a von der Sonne und der gleichzeitigen Entfernung $a-1$ von der Erde haben würde, und g, berechnet nach der Formel

$$g = m_0 - 5 \log a\,(a-1),$$

dienen dazu, für einen beliebigen Ort des Planeten ($\varDelta$ Entfernung von der Erde, r von der Sonne) seine Größe M zu berechnen

$$M = g + 5\,(\log \varDelta + \log r).$$

Die im Berliner Jahrbuch für 1915 gegebene Zusammenstellung der Elemente hat hier folgende Änderungen erfahren:

1. Infolge weiter geführter Berechnung der speziellen Störungen (ohne Bahnverbesserung):

Nr.	Autorität	Nr.	Autorität
78	Dubjago	313	Berberich
82	Luther	363	Antoniazzi[2]
86	Stracke (genähert)	371	Mader
113	Luther	397	Mader
241	Luther	421	Berberich
247	Luther	433	Witt
265	Berberich	455	Berberich
279	Viljev[1]	511	Strehlow
288	Luther	582	Berberich
289	Berberich	654	Millosevich[3]

[1]) A. N. Bd. 195, 111. Druckfehler in μ korrigiert.

[2]) Atti R. I. Veneto 1912.

[3]) A. N. Bd. 195, 237.

2. Infolge Bahnverbesserung:

a) Durch empirische Korrektion meist nur in M, zuweilen auch in μ, nach den Angaben von Berberich:

Nr.	Korrektion
129	$\Delta M = + 60'$; $\Delta\mu = + 1''.0$
209	$\Delta M = - 121'.5$
255	$\Delta\mu = + 0''.1085$ von 1904 März 14.5 an
281	$\Delta\mu = - 1''.45$
320	$\Delta M = - 176'$; $\Delta\mu = - 1''.3$ (1912 Okt. 14.5)
364	$\Delta M = - 16'.25$
416	$\Delta M = - 62'.0$
425	$\Delta M = - 73'.4$ (1908 Mai 19.5); $\Delta\mu = - 1''.0$
541	$\Delta M = - 40'$
562	$\Delta M = + 63'.8$

b) Differentiell oder durch Distanzenvariation (ohne Störungen):

Nr.	Autorität
302	Berberich
365	»
499	»
545	»
578	Burmeister
584	Berberich

c) Mit allgemeiner oder spezieller Störungsrechnung:

Nr.	Autorität
123	Strömberg und Hernlund[1]) (mittlere Elemente)
354	Antoniazzi[2])
447	Osten
462	Berberich
471	Strömberg und Hernlund[1]) (mittlere Elemente)
488	Berberich
522	Berberich
624	Strömgren[3])
659	Andersen[4])

[1]) Astr. Nachr. Bd. 195, 129.

[2]) Mem. Spettr. It. Febbraio 1913.

[3]) Nach briefl. Mitt.

[4]) Astr. Nachr. Bd. 195, 433.

3. Durch Einführung neuer erster Bahnelemente:

(193) Ambrosia gerechnet von Berberich
Aus 3 Normalörtern 1879 März 1, 14, 26.
B-R: März 19 $\Delta\lambda = +2''.9$ $\Delta\beta = +1''.0$

(489) Comacina gerechnet von Berberich
Aus 1911 Febr. 22 Königstuhl, März 28 Wien, Mai 3 Nizza. Die aus 1911 vorhandenen Beobachtungen werden alle nahe dargestellt. Die Erscheinungen 1902, 1912 und 1913 werden durch die empirische Korrektion $\Delta M = -3'.4$, bezw. $-6'$ und $-27'$ dargestellt, die von der Ordnung der Störungen sind.

(497) Iva gerechnet von Kopff (Astr. Nachr. Bd. 193, 438)

(512) Taurinensis gerechnet von Berberich
Aus 1903 Juni 26, Juli 16, Aug. 22. Zur Darstellung der Erscheinung 1909 — [1909 *GR*] — wurde noch μ um $+0''.5$ empirisch korrigiert. Damit wird die Opposition 1913 auf $+3^m.2$, $+20'$ dargestellt, entsprechend einer weiteren Korrektion $\Delta M = +12'.6$.

(560) Delila gerechnet von Berberich
Aus 1905 März 13 Königstuhl, April 4 und Mai 5 Wien.

			$\Delta\lambda$	$\Delta\beta$
B-R: Wien	März	30	$+3''.4$	$-0''.4$
	Apr.	4	$+1.6$	-0.2
		9	$+0.2$	-1.4
		24	$+3.5$	-0.2

(587) Hypsipyle gerechnet von Berberich
Aus 1906 Febr. 22, März 3 Königstuhl und März 23 Wien.

			$\Delta\lambda$	$\Delta\beta$
B-R: Wien	Febr.	27	$-4''.6$	$-5''.6$
	März	18	-0.5	-0.5
	»	30	-0.3	$+2.5$

(597) Bandusia gerechnet von Berberich
Aus 1906 April 16, Mai 13 Königstuhl und Mai 23 Wien.

			$\Delta\lambda$	$\Delta\beta$
B-R: Kgst.	Mai	13	$0''.0$	$-3''.0$
Wien	»	18	$+0.6$	-3.8

Der Ort Kgst. 1912 Dez. 31 wird mit $\Delta M = +16'$ in α genau, in δ auf $6'$ dargestellt.

(611) Valeria gerechnet von Berberich
Aus 1906 Okt. 11, Nov. 13, Dez. 18 Washington.

			$\Delta\lambda$	$\Delta\beta$
B-R: Wash.	Okt.	25	$+4''.8$	$-0''.1$
»	Nov.	13	$+0.1$	0.0
»	»	22	$+2.6$	$+0.1$
»	Dez.	11	$+2.5$	$+0.1$

Zur Darstellung der Erscheinung 1901 — [1901 *HC*] — ist die Korrektion $\Delta M = +27'.5$ und von 1908 $\Delta M = -2'.7$ erforderlich. In der Opposition 1913 war $\Delta\alpha = +0^m.5$, $\Delta\delta = -1'$, entsprechend $\Delta M = +4'.0$.

(692) Hippodamia von Dubosq (Astr. Nachr. Bd. 196, 69)

(694) Ekard von Nicholson und Bower (Lick Bull. 227)

Ferner wurden für

(168) Sibylla die unkorrigierten Elemente v. d. Groebens,

(310) Margarita die besser stimmenden Elemente Nordenmarks wieder eingesetzt und für

(465) Alekto die aus der Erscheinung 1907 von Eaton stammenden Elemente des mit (465) identischen Planeten 1907 *YD* (Astr. Journal Bd. 26, 14).

Endlich konnten für 22 neue Planeten elliptische Bahnelemente berechnet werden, so daß die Zahl der numerierten Objekte nunmehr auf 754 gestiegen ist. Dazu gehörte auch der ältere Planet [1906 *UT*], für den bisher eine unnumerierte elliptische Bahn gegeben wurde; es wurde eine neue Bahn gerechnet, die seine Identität mit [1901 *GH*] und [1909 *GF*] ergab und seine Numerierung erlaubte. Die näheren Angaben finden sich Astr. Nachr. Bd. 196, 129. Außerdem sind die unnumerierten elliptischen Elemente der Planeten [1900 *GA*] (zuletzt im B. J. 1910 gegeben), [1906 *WF*], [1908 *CK*] (Astr. Nachr. Bd. 196, 136) und 1911 *MF*[d] (Astr. Nachr. Bd. 193, 95) aufgenommen. Wie schon erwähnt, wurde [1906 *UT*] mit der Nr. 754 versehen. Sodann sind in die Elemententabelle der Kreisbahnen noch folgende Planeten aufgenommen: [1907 *VG*], [1906 *WH*], [1907 *AL*], [1907 *AO*] und [1908 *BN*]. Als identisch mit numerierten Planeten haben sich die Planeten 1893 *U* = 700 und 1901 *HC* = 611 erwiesen und konnten daher in dieser Tabelle gestrichen werden.

Kurze und ausführliche Oppositionsephemeriden

(S. (42)—(98)).

Für alle im Jahre 1914 in Opposition gelangenden numerierten Kleinen Planeten (mit Ausnahme der oben namhaft gemachten 17 unsicheren Objekte) sind kurze Oppositionsephemeriden auf der Grundlage der in Tabelle S. (2)—(39) enthaltenen elliptischen Elemente gerechnet worden. Nur für die Planeten 4 (aus dem Nautical Almanac für 1914), 7, 8, 9, 12, 13, 15, 18, 27, 32, 40, 58, 101, 105, 115, 119, 123, 133, 139, 161, 174 und 471 sind die Störungen nach den vorliegenden Tafeln in den Ephemeriden berücksichtigt.

Die Ephemeriden sind nach dem Oppositionsdatum, das in kleinerer Type an der Seite beigefügt ist, geordnet. Der Kopf enthält Nummer, Namen und genäherte Oppositionsgröße des Planeten, sowie das letzte Jahr, aus dem veröffentlichte, mit Sicherheit identifizierte Beobachtungen

— soweit bis zum 1. Oktober 1913 hier bekannt — vorliegen. Ist die Identifizierung unsicher gewesen, so ist das betreffende Jahr in Klammern beigefügt. Die Ephemeride selbst gibt in Erweiterung der Ephemeriden des Vorjahres sechs auf das mittlere Äquinoktium 1910.0 bezogene Örter in 8tägigen Intervallen.

Für 8 Planeten sind ausführliche Oppositionsephemeriden gegeben, auf welche ein dem Planetennamen bei den kurzen Ephemeriden beigefügter Stern hinweist. Einige der kurzen Ephemeriden, sowie 7 der ausführlichen sind dem Astronomischen Rechen-Institut von W. Baranow, R. Coniel, W. Luther, H. Mader, H. Osten, H. Samter, W. Strehlow und M. Théohar freundlichst zur Verfügung gestellt worden. Die Ephemeriden der Planeten 1—4 sind dem Nautical Almanac für 1914 entnommen.

Berichtigungen.

Da es infolge der wesentlichen Erweiterung der Oppositionsangaben nicht möglich gewesen war, alle Angaben in den Ephemeriden der Kleinen Planeten für 1912 und 1913 durch Kontrollrechnung zu prüfen, haben sich in ihnen einige Fehler eingeschlichen, die im Folgenden berichtigt werden. Die Ephemeriden für 1914 sind durch sorgfältige Kontrollrechnung (unabhängige Rechnung des 6. Ortes) gegen Rechenfehler gesichert.

In den Jahrbüchern für 1908, 1910, 1911, 1912 sind die Deklinationen der Oppositionen von (126) Velleda, wie folgt, zu berichtigen:

1906	— 7° 50′	statt	— 7° 4′
1908	+23 0	»	+20 55
1909	—19 22	»	+17 27
1910	+ 7 47	»	+ 6 45

Jahrbuch 1914
(Angaben für 1912)

(außer den schon im B. J. für 1914, S. [32] gegebenen).

S. (41) 201 Penelope Corr. $0^m.0$ +13′

S. (42) (204) Kallisto Corr. +2.1 —3

(641) [1907 *ZX*] Febr. 29
$8^h 58^m.7$ statt $8^h 59^m.7$
20° 12′ statt 20° 25′

S. (43) (126) Velleda Corr. $0^m.0$ +1° 33′
» +1 28
» +1 22
» +1 15

S. (47) (277) Elvira Neue Ephemeride:

März 2	$11^h 39^m.2$	+0° 40′
12	11 31.6	+1 30
22	11 23.8	+2 22
Apr. 1	11 16.8	+3 10
11	11 11.2	+3 50

S. (54) (490) Veritas Corr. $+0^m.9$ 0′

(695) [1909 *JB*] Deklinationen:

Mai 31	—31° 44′
Juni 10	—30 32
20	—29 9
30	—27 44

S. (61) (120) Lachesis
Corr. $+1^m.8$ +10′

S. (65) (180) Garumna
Corr. $-3^m.1$ —21′

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(Angaben für 1913)
(außer den schon im B. J. für 1915, S. X gegebenen).

(19) Fortuna	lies Größe	$9^m.3$	statt	$11^m.3$
(58) Concordia	»	»	11.2	»	10.4
(339) Dorothea	»	»	12.3	»	14.8
(345) Tercidina	»	»	11.2	»	13.2
(485) Genua	»	»	11.4	»	14.4
(582) [1906 *SO*]	»	»	12.0	»	14.0

S. (47) (14) Irene Neue Ephemeride:

März 7	$10^h 58^m.3$	$+23°47'$
17	10 50.0	+24 27
27	10 43.4	+24 38
Apr. 6	10 39.3	+24 18

S. (50) (436) Patricia Corr. $-0^m.9$ + 1'
(428) Monachia » +5.1 — 1
S. (51) (201) Penelope » 0.0 +28
S. (53) (216) Kleopatra » +0.7 + 2
S. (56) (126) Velleda » 0.0 —2°29
(337) Devosa » +1.1 + 2
S. (57) (277) Elvira Neue Ephemeride:

Mai 26	$16^h 37^m.5$	$-21°38'$
Juni 5	16 28.7	—21 16
15	16 20.3	—20 54
25	16 13.1	—20 34

S. (57) (182) Elsa Corr. $+6^m.5$ —5'
S. (58) (238) Hypatia Deklinationen:

Juni 15	—5° 10'
25	—5 4
Juli 5	—5 10
15	—5 33

S. (61) (80) Sappho Corr. $-2^m.1$ —1'
S. (65) (363) Padua Neue Ephemeride:

Aug. 23	$22^h 53^m.0$	$-17°43'$
Sept. 3	22 44.6	—18 33
13	22 36.3	—19 9
23	22 29.2	—19 28

S. (66) (402) Chloë Corr. $+6^m.5$ +23'
S. (68) (437) Rhodia » +2.7 +12
(415) Palatia δ negativ
S. (69) (127) Johanna Corr. $0^m.0$ + 8'
(419) Aurelia » +1.3 + 7
S. (70) (120) Lachesis » +1.7 +10
S. (72) (347) Pariana Neue Ephemeride:

Nov. 2	$3^h 23^m.1$	$+6°41'$
12	3 13.5	+6 27
22	3 3.6	+6 24
Dez. 2	2 54.7	+6 32

S. (74) (516) Amherstia Corr. $-0^m.9$ + 2'
S. (75) (100) Hekate » 0.0 +35

